

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.







a HD6977

.57

C. 872

[Final Report

Valuation of Household Production as
Exemplified by Food Production]

Contract No. 52-3204-0-204
Family Economics Research Group
United States Department of Agriculture

by
Kathryn Stafford, Ph.D.
Assistant Professor

Margaret M. Sanik, Ph.D.
Assistant Professor

Department of Home Management and Housing
College of Agriculture and Home Economics
The Ohio State University
and
Ohio Agricultural Research
and Development Center

Table of Contents

	Page
List of Tables	ii
Abstract	vi
Introduction	1
Objectives	2
Previous Work and Present Outlook	3
Procedure	17
Results and Discussion	22
Appendix A	128
References	231

LIST OF TABLES

Cross-breakdown of average market value of food	Table Number
Age group of younger child	
by location of residence	1
by employment status of wife	2
by sex of children	3
by education of husband	4
by education of wife	5
by family income	6
Employment status of wife	
by location of residence	7
by sex of children	8
by education of husband	9
by education of wife	10
by family income	11
Cross-breakdown of market value of food on day 1	
Age group of younger child	
by location of residence	12
by employment status of wife	13
by sex of children	14
by education of husband	15
by education of wife	16
by family income	17
Employment status of wife	
by location of residence	18
by sex of children	19
by education of husband	20
by education of wife	21
by family income	22
Cross-breakdown of market value of food on day 2	
Age group of younger child	
by location of residence	23
by employment status of wife	24
by sex of children	25
by education of husband	26
by education of wife	27
by family income	28

Table Number

Employment status of wife	
by location of residence	29
by sex of children	30
by education of husband	31
by education of wife	32
by family income	33

Cross-breakdown of average replacement cost of food

Age group of younger child	
by location of residence	34
by employment status of wife	35
by sex of children	36
by education of husband	37
by education of wife	38
by family income	39

Employment status of wife	
by location of residence	40
by sex of children	41
by education of husband	42
by education of wife	43
by family income	44

Cross-breakdown of replacement cost of food day 1

Age of younger child	
by location of residence	45
by employment status of wife	46
by sex of children	47
by education of husband	48
by education of wife	49
by family income	50

Employment status of wife	
by location of residence	51
by sex of children	52
by education of husband	53
by education of wife	54
by family income	55

Cross-breakdown of replacement cost of food day 2

Age group of younger child	
by location of residence	56
by employment status of wife	57
by sex of children	58
by education of husband	59
by education of wife	60
by family income	61

Table Number

Employment status of wife	
by location of residence	62
by sex of children	63
by education of husband	64
by education of wife	65
by family income	66
 Cross-breakdown of average opportunity cost of food	
Age group of younger child	
by location of residency	67
by employment status of wife	68
by sex of children	69
by education of husband	70
by education of wife	71
by family income	72
 Employment status of wife	
by location of residence	73
by sex of children	74
by education of husband	75
by education of wife	76
by family income	77
 Cross-breakdown of opportunity cost of food on day 1	
Age group of younger child	
by location of residence	78
by employment status of wife	79
by sex of children	80
by education of husband	81
by education of wife	82
by family income	83
 Employment status of wife	
by location of residence	84
by sex of children	85
by education of husband	86
by education of wife	87
by family income	88
 Cross-breakdown of opportunity cost of food on day 2	
Age group of younger child	
by location of residence	89
by employment status of wife	90
by sex of children	91
by education of husband	92
by education of wife	93
by family income	94

	Table Number
Age group of younger child	
by location of residence	95
by sex of children	96
by education of husband	97
by education of wife	98
by family income	99

ABSTRACT

The purpose of this project is to demonstrate the feasibility of the product accounting approach to estimating the value of household production. Previously, income accounting approaches have been used. The three methods currently in use are substitute worker cost (Kuznets, 1941), replacement cost (Walker and Gauger, 1973), and opportunity cost (Sirageldin, 1969). All three depend for their validity upon perfectly competitive labor markets, marginal wage rates equal to average wage rates, equal purchasing power for all family sizes (ceteris paribus), little or no contribution to output value by equipment and raw materials, families in equilibrium, and monotonicity between output and labor inputs. The three methods underestimate the value of household production, but they are useful in valuing that portion of household production omitted from GNP and the economic contribution of homemakers. They are not useful in assessing efficiency of resource use or substitution of home produced goods for market goods. The product accounting approach yields product cost estimates of the value of household produced goods and services which do not underestimate, are useful for all the above mentioned purposes, and are no more difficult to compute. Therefore, the product account approach is recommended. Feasibility was demonstrated using data on the household food production activities in two-parent, two-child families in Syracuse, New York in 1977. Food products and services were identified, quantified, and priced using University of Syracuse food service prices.

The average daily market cost of food prepared and served at home was \$6.50. Market cost estimates were affected by wife's employment status. They were not affected by age of younger child, location of residence, husband's education, wife's education, sex of children, or family income. Market cost estimates were consistently smaller than replacement and opportunity cost estimates of the value of food production for the same sample.

Valuation of Household Production as Exemplified by Food Production

Even before household production was defined well conceptually there was interest in valuing it. The earliest attempt on record is 1919 (Kuznets, 1941). At that time the reason for valuing household production was an attempt to include the products of non-market economic activities in the Gross National Product accounts. The economists wished to know at least the implications of its omission from the accounts. Absence of a quantity measure limited early attempts at valuation.

The earliest studies (Leeds, 1917; Reid, 1932) of household production in the United States were concerned primarily with demonstrating the very existence of production in the home. After much discussion, Reid clearly defined and delimited household production. She defined it as:

Unpaid activities which are carried on, by and for the members, which activities might be replaced by market goods, or paid services, if circumstances such as income, market conditions, and personal inclinations permit the service being delegated to someone outside the household group (Reid, 1932, p. 11).¹

¹Hawrylyshyn (1977) later proposed essentially the same criterion and called it the third person criterion.

Having arrived at an economically meaningful, empirically feasible definition of household production, investigators began to try to measure output. Jean Warren (1938) adapted agricultural productive-man-work units for analysis of household production. Whereas agricultural man-work units were defined as the average amount of work done by a man in a ten-hour day, Warren expressed her work units in minutes per week. They were based upon the average time used to accomplish a certain task at average speed under average conditions. Thus the first attempt to quantify household production output was based on labor input.

Increasingly refined measures of labor input have led to a proliferation of techniques for valuing household production. Simultaneously there has been an increase in the uses of these estimates. There are important personal, social, legal, and economic reasons for valuing household production and for being concerned with which valuation technique is used.

This project evaluates possible methods of estimating the value of household production based on the income accounting and product accounting approaches. Based on the results of the evaluation, a method of valuation is recommended and a demonstration of the method for household food production is included. Estimates of the value of labor inputs to food production are also included and compared to the market value of food produced and served at home.

OBJECTIVES

- 1) To develop the conceptual basis for a product accounting approach to valuing household production.
- 2) To compare the product accounting approach to the income accounting approach.

- 3) To apply the product accounting approach to an estimation of the value of food produced and served at home.

PREVIOUS WORK AND PRESENT OUTLOOK

There are two basic approaches to valuing household production discussed in the literature. One is estimating the input cost to produce goods and services in the home. It is known as the income accounting approach. The other is estimating the market price of goods and services produced in the home. It is known as product accounting approach. Both methods follow from the conceptual framework developed in order to measure the output of the United States' economy. As described by the Department of Commerce (DOC)

- Total output is measured from two principal points of view: as the summation of final products produced by the economy; and as the summation of costs incurred in producing these products. (DOC 1954, p. 1)

Income Accounting Approach of Valuation

The most frequently encountered basic approach to valuing household production is estimating the input cost. Three different computational methods have been used. They are called the substitute labor cost method, the replacement cost method, and the opportunity cost method. They estimate only labor cost. In this section these three methods will be briefly described, the assumptions implicit in the methods will be made explicit, and the three methods will be evaluated for usefulness.²

In 1917, Leeds suggested

....that the housewife's work can best be valued as that of any other worker, namely, by what you would have to pay to obtain someone else to do the same work, or by what she could obtain if she hired out to someone else to do the same work as an employee (Leeds, 1917, p. 103).

²A fourth computational method has been proposed but not used. It is the value added method (Hawrylyshyn, 1977).

Leed's proposed estimation technique was labeled by Kuznets and others as the substitute worker cost. Kuznets (1941) used the average annual compensation of domestic workers as the value of non-farm housewives and that of farm workers as the value of farm wives. Using wage income instead of wage rates had the value of eliminating the need for time data.

Some believe this method to be appealing because it is thought to be the most likely mode of resorting to the market to provide household production services (Hawrylyshyn, 1976). The strongest argument in favor of this method is that professional housekeepers get no direct utility from performing the tasks and, therefore, have no utilitarian reason to expend extra time. Thus, the market cost of hiring a domestic servant approximates the value of De Serpa's (1971) minimum necessary time (Hawrylyshyn, 1977).

The primary criticism leveled against this method is that no single type of worker can substitute for the housewife (Reid, 1934, p. 167). Those who do not agree with this criticism do agree that such a substitute worker is hard to find. If you believe that goods and services produced in the home are a result of personal abilities as well as family demand then the question of comparability of product arises. That is, does the average domestic worker do more or less or the same amount of baking or child care as an average housewife? Hawrylyshyn (1976) pointed out two potential opposing biases existing in this method. The estimates are low because housekeepers rarely perform all household tasks; family members still perform many. When aggregated the estimates are high because the costs are for "full-family" households and the averages exclude single person and unmarried households.

The replacement cost method used by Walker and Gauger (1973), avoids the difficulty posed by the single substitute worker by dividing household

production into separate activities, for each of which a single worker is readily available in the labor market. The replacement cost estimate of household production is a time weighted sum of the labor market costs of the multiple substitute workers. The time weights are derived from time-use studies of households. The average time spent in each type of household activity is the weight. The average times have been computed for different types of families (Walker and Gauger, 1973), in which case the subsequent valuations are also computed for different types of families.

Hawrylyshyn (1976) points out two possible sources of upward bias in replacement cost estimates. First, total time is overestimated if tasks are overlapped or done simultaneously. Second, at least some of the wages will overestimate the value of the task because of an inexact match between the employment and home job descriptions. He concludes however that if replacement cost estimates are carefully done then they are not biased estimates of labor cost.

Whereas the replacement cost method uses the labor market price for a different person to perform the same household job as the estimate of household production value, the opportunity cost method uses the labor market price for the same household production laborer rather than the same job. Sirageldin (1969) computed estimates of household production labor cost using the opportunity cost method as well as the replacement cost method. The opportunity cost method estimates the value of household production labor to be equal to the wage rate the household laborer could earn were the laborer to work for pay rather than for the family (earnings foregone because of participation in household production). Weinrobe (1974) also computed opportunity cost estimates as did Nordhaus and Fabin (Hawrylyshyn, 1976).

If households do not maximize like a rational Beckerian household then the meaning of the opportunity cost measure is unclear (Adler and Hawrylyshyn, 1978, p. 340). Furthermore, it has been alleged that opportunity cost overestimates value of the household work. Discouraged workers are likely to value their time as less than their market wage rate. Assigning the median wage of females to non-employed females is not justified because employed females have more education and work experience than full-time housewives (Ferber, 1975, p. 251).

It can be argued that, to the individual, the value of time at the margin is the net foregone earnings from an extra hour of work in the market. Net means gross earnings less taxes and other work-related expenses such as commuting costs and child care costs. It has been shown that gross opportunity wages overstate net opportunity wages by more than 20 percent due to federal income taxes. If state and local taxes and employee contributions to social insurance are added, the overstatement approaches 34 percent. Other work related expenses might add another 3 percent (Murphy, 1980, p. 414).¹¹

Gronau (1973) suggested a variation on the opportunity cost approach. He pointed out that Sirageldin and others using the opportunity cost approach implicitly assume the wife works in the market. They went on to derive a general formulation of intrafamily allocation of time in which family members allocate their time according to their comparative advantage in the production of market and home goods. The implication of his more general formulation is that the wife's wage rate is not always the appropriate measure of the value of her time. When the wife works in the market her marginal wage rate is the appropriate measure. When the wife is a full-time homemaker and her husband does not work at home, the appropriate measure of the value of her labor is

the husband's income. When a housewife's husband works at home as well as in the market, the appropriate measure of the value of her time is his wage rate.

The substitute labor cost, replacement cost, and opportunity cost methods share some assumptions.

1) Perfectly competitive labor markets

One of the more important assumptions is that the labor market is perfectly competitive. In perfectly competitive labor markets the price paid labor (wage rate) is the value of the marginal product of labor. To the extent to which there are imperfections in labor markets, wage rates are biased estimates of the value of labor.

2) Marginal wages equal to average wages

A related assumption is that average hourly earnings are equal to marginal wage rates. The only conditions under which this assumption is true are absence of labor monopsonies and corporate ~~mo~~ monopolies in the labor market and the absence of wage differentials for such conditions as overtime and holidays.

3) Equal purchasing power for all family sizes

David (1962) has pointed out that family size is positively related to frequency of commodity purchase at quantity discounts. The implication of David's hypothesis is that the purchasing power of the same dollar is larger for larger families than for smaller ones.

4) No contribution by capital and raw materials

None of the income accounting approaches to valuation makes any attempt to account for or to value the contribution of household capital in the form of equipment and facilities and raw materials to household production.

The cost of market purchased capital facilities and raw materials used by household is reported as expenditures for personal consumption in the Gross National Product Account (GNP). The cost of home produced facilities and equipment and home produced and processed raw materials is not reported in the GNP. It has been assumed that their value would be minor relative to the value of the equipment and raw materials purchased by consumers (Gage, 1969, p. 16) and that, therefore, the estimates of value have not been biased greatly by this omission.

If your purpose is to estimate the value of the economy's non-market output, namely the value of those non-market activities done by American families which are not included in conventional national accounts, the omission of capital and raw materials is not serious since most capital and raw materials are measured in GNP. The assumption about the relatively small size of home produced equipment and raw materials is probably true. If your purpose is to estimate the economic contribution of housewives the omission is also not serious. The presence or absence of equipment and the production and/or processing of raw materials is reflected in the quantity of the wife's time inputs to various activities. The extent to which capital equipment and facilities increase the household worker's productivity, biases income estimated downward because the time inputs of efficient workers are less for the same output. If, on the other hand, the purpose is to estimate the value of goods and services produced at home, the omission is a serious one. In 1979, households spent 13.06 billion dollars for major appliances ("Major Appliances", pp. 22-23) and 8.82 billion dollars for housewares ("Housewares",

pp. 32-35), excluding personal care equipment.³ Thus omission of capital costs alone results in underestimating the value of household production by more than twenty billion dollars.

5) Families in equilibrium and free to allocate their time

When families are in equilibrium they have allocated the members' time as they freely choose, within the restrictions imposed by their resource constraints. When families are in equilibrium, hourly wage rates represent the value of the members' labor both to the members and to society. When families are not in equilibrium, this interpretation of wage rates is suspect. In reality, families are seldom in equilibrium. Families have members who are sick, unemployed, underemployed, and putting in more overtime than they wish. Families are frequently in disequilibrium because time must be used in a specified quantity or not used at all. The problem is analogous to the indivisibility of market goods. For example, when a person accepts a job, the employment hours are usually fixed. Not only is the total weekly time fixed usually, the daily schedule of when a person works is fixed also, except perhaps for professionals and some salesmen.

6) Monotonic relationship between household production output level and labor input level

An essential assumption behind the use of inputs to measure output is monotonicity. One must believe that as labor inputs increase, so does output. Put another way, one must believe that too many cooks cannot spoil the soup.

³These figures are actually dollar value of appliances shipped in 1979. The comparable major appliance figure for 1973 was 8 billion dollars. Based on data in the 1972-74 CES, the Bureau of the Census estimated 11.48 billion dollars spent on major appliances in 1973. (Bureau of the Census, 1979, p. 20). Therefore, the figures quoted probably underestimate rather than overestimate capital costs.

On the other hand, most types of production functions have some point at which additional labor inputs become counterproductive. The monotonicity assumption does permit some variation in efficiency, however. That is, the rate of increase in output with each additional minute of time input may decline, but total output must not decline.

The income accounting approaches to valuation of household production have proved to be very useful if one is trying to adjust GNP for non-market production. The assumption of perfectly competitive labor markets is not essential and estimates could be adjusted to account for labor market structure. If one uses the Kuznets' computation of substitute worker cost, the assumptions about families do not affect the estimates. If one uses either of the other approaches, the family assumptions may bias the estimates. Biases due to the equilibrium assumption could be mitigated by using long-term average rather than daily time-use data. Equipment and raw materials are, on the whole, accounted for either in GNP or in greater time inputs. The choice of computation method selected for this purpose depends on whether policy makers and families should use the same measure. Families use opportunity cost when making time-use decisions. One could argue, however, that policy makers should be interested in what it would cost the economy to replace home production with market production.

The income accounting approaches also have proved very useful in estimating the economic value of homemakers. They serve this purpose better than any other. Ignoring the contributions of equipment and raw materials is irrelevant if this is the purpose. Monotonicity also is not a problem for this purpose. The problems imposed by the labor market and wage rate assumptions remain. Once again, the equilibrium assumption could be mitigated by basing estimates on long duration time data rather than daily data. The most

frequent use of estimates for this purpose is in legal arguments. If one is suing for compensation for loss of future services, both the substitute worker cost and the replacement cost approaches are appropriate. If one is requesting compensation for past services rendered, the most appropriate method is the opportunity cost approach because this approach uses the wage rate for which the person implicitly agreed to work. Based upon Gronau's (1973) work, the relevant wage depends upon past family work arrangements.

On the other hand, the income accounting approaches, as currently computed, have serious shortcomings as a measure of the value of household production. Omitting the cost of equipment and raw materials seriously underestimates the value of household produced goods and services. In addition, these methods of valuation do not permit assessment of the cost effectiveness of household production, or any activity thereof. It is also impossible to estimate the substitution of household produced goods and services for those in the market and vice versa. Then too, it is impossible to determine optimum allocations of resources for any particular household.

Product Accounting Approach

In this section, the product accounting approach to valuing household production is described and compared to the methods used in the income accounting approach. In product accounting, the value of household production is estimated by summing the prices of market goods and services comparable to those produced at home. Although the approach was discussed by Gage (1969), a computational method for it has never been devised.

The advantage of the approach is that the product cost estimate is useful for resource allocation analysis as well as for valuation of household production. With a measure of output which is not definitionally equal to the labor input it is possible to assess the efficiency of using a given

quantity of resources for some production activity. Of course, measures for the quantity and price of the resources are also needed to assess efficiency. With the additional information, it also becomes possible to measure the responsiveness of home production output and market purchases to changes in each other's prices. The product accounting approach achieves a more accurate, more useful estimation of value for no greater computational cost.

Income accounting approaches must define production jobs in a way that realistically reflects home conditions and simultaneously conforms with frequently encountered job descriptions in the labor market. The analogous problem for the product accounting approach is to define household goods and services in terms that simultaneously conform to home and market realities. Product definitions have proved to be an obstacle to using the approach. Although the conceptual problems involved are no more complex than those involved in selecting the desirable level of aggregation of household production activities, home economists and others have been more hesitant to tackle them.

It has been argued that income computations are easier than product account computations (Gage, 1964). This argument does not hold up under close scrutiny. Market prices of goods and services are just as easy to secure as market prices of laborers. In both cases, the question of comparable quality must be answered. Each estimation approach relies on three pieces of information per task or product. The replacement cost and opportunity cost methods rely on measures of who is producing at home, how much time they spend in production, and market wages. In one case you need the market wages of laborers paid to perform household production tasks, and in the other cases you need market wages of the household members. Product accounting estimates rely on measures of which products are produced, how much of them are produced and their price.

The speed of computation depends, then, upon the number of tasks or products. The computations are faster for the income accounting procedures only if the product (A) of number of tasks (B) times number of persons per task (C) is less than the number of products (D). If

$$A = (B \times C) < D \quad (1)$$

then income accounting is faster and cheaper. If

$$A = (B \times C) > D, \quad (2)$$

then product accounting is faster and cheaper.

If the income accounting estimation methods measured inputs other than labor the product accounting calculations certainly would be faster and cheaper. As it is, the question of relative ease of calculation does not have a clear cut answer.

Hawrylyshyn (1977) has called the product accounting approach the "full production function value of household work (p. 92)." As he points out - if current microeconomic theory treats households as firms it makes sense to treat them that way for national income accounting. The empirical work in this project is based on the model proposed by Hawrylyshyn (1977).

Households maximize utility (U) which is directly yielded by basic commodities (Z) produced at home subject to household production technology, wage transformation, time, and income constraints. Stated algebraically:

$$1) U = g(Z_1, Z_2, \dots, Z_n)$$

subject to

$$2) Z_i = h_i(X_1^i, X_2^i, \dots, X_j^i, \dots, X_n^c, T_H^i) \quad \begin{array}{l} \text{[Household Production} \\ \text{Technology]} \end{array}$$

$$3) Y = W T_m \quad \text{[Wage Transformation]}$$

$$4) T_m + T_H + T_L = T \quad \text{[Time constraint]}$$

$$5) \sum_{i=1}^n p_i X_i = Y \quad [\text{Income Constraint}]$$

Where

U = utility

n = number of goods

X_i = quantity of good i

P_i = price of good i

Y = income level given exogenously

Z_i = basic commodity i

X_i^i = good i used in "production" of basic commodity i

T_H^i = home time used in "production" of basic commodity i

W = hourly wage

Y = total income earned

T_m = time in paid market work

T_L = time in leisure activities

T = total available time

As Hawrylyshyn (1977) points out production of basic commodities at home encompasses the joint production of both utility goods and services which can yield utility. Estimates of the market value of home production outputs is net of the joint output utility since market values pertain to only goods and services and since one's own utility is unmarketable. A total value equation for a household production function which uses the simplified inputs of market goods and labor is

$$6) U + TVP = P_X X + W T_H$$

Where

U = utility

TVP = market value of good and service produced, a basic commodity

P_X = price of market good X

X = market goods input

W = wage rate

T_H = time in production of commodity

Substitute labor cost, replacement cost and opportunity cost estimation methods attempt to measure WT_H . The estimation method utilized in this study measures TVP . From (6) we know

7) if $U=0$ and $P_X X \geq 0$,

then $TVP \geq WT_m$

if $U > 0$,

then $TVP \leq WT_m$

In order for TVP to be less than WT_H , either $P_X X$ must equal zero and U be positive or U must be greater than $P_X X$.

The expected relationships between estimates derived from the product accounting approach and the estimates derived from the income accounting approach is not as clear. Hawrylyshyn (1977) has argued that substitute work cost estimates net out the value of labor used to produce utility directly. If this is the case our estimates would be equal to or greater than substitute worker cost estimates, depending on the value of market goods inputs. If replacement cost estimates also net out the value of labor used to produce utility, as has been postulated (Hawrylyshyn, 1977) that the same conclusion can be drawn. Opportunity cost estimates do not net out utility. If they also do not net out taxes and other withholdings, there

is reason to believe that opportunity cost estimates may exceed our estimates, depending upon the size of upward bias due to gross rather than net wages and utility derived directly from engaging in household production. It is safe to assume that the value of market goods inputs is nonnegative for food production.

Literature on income accounting approaches to valuing household production and literature on production functions have few implications for the product accounting approach. One of the more important advantages of the product accounting approach is that it permits estimation of household production functions and an examination of productivity in the home. If this promise is to be fulfilled the theoretical literature on production has some implications about the appropriate level of product aggregation when classifying outputs and quantifying them. The outputs of differing production technologies should not be aggregated if they are to be used to estimate production functions. Such questions as whether using a gas range instead of an electric range constitutes an economically meaningful difference in production technology must, however, remain an empirical question. In this study we are interested only in estimating the value of the output so this implication is not restrictive either when matching prices and products or when reporting summary statistics. Because the researchers are interested in household production functions, products will not be aggregated prior to coding and recording the data.

PROCEDURE

The Sample

To demonstrate the feasibility of using a product accounting approach a single household activity was selected for focus. The criteria for selection were:

- 1) in the interest of completing the project within a year data had to have been previously collected
- 2) preference was given to unanalyzed data
- 3) preference was given to activities for which both product output and resource input data were available.

Using these criteria, food preparation and service data from the New York State component of NE113: An Interstate Rural/Urban Comparison of Family Members' Time Use were selected. In 1977, 210 homemakers in two-parent, two-child households in the SMSA of Syracuse, New York were interviewed. The sample was stratified according to age of younger child: under 1, 1, 2 to 5, 6 to 11, and 12 to 17 years of age. Data were collected over the course of the year, with equal members of each day of the week represented in each cell (Sanik, 1979).

In addition to information about use of time, supplemental questions provided data on inputs and some outputs to household production such as what food items were served and how they were prepared. Individual components of meals had not been coded or analyzed. Another advantage was familiarity with the data. Sanik had assisted in the design of the questionnaire and of data collection procedures. It was thought that familiarity with the data would reduce errors.

Food and Market Price Equivalents

As meal information was obtained from the Syracuse, New York area, it was thought that market price data should be obtained from the same area. Two choices of food prices existed. We could have surveyed restaurants in metropolitan Syracuse or we could have selected an institution providing pay-as-you-go, optional boarding services for a large number of normal, healthy people. We chose the latter and selected the University of Syracuse. There were three advantages for the latter option. One, the level of service provided in a cafeteria style food service more nearly resembles the service provided in homes. Two, the university served a greater number of foods actually served at home. For example, few restaurants offer peanut butter or bologna sandwiches or side orders of potato chips, yet these items were found relatively frequently on home menus. Three, data collection expenses would be less if the University would supply us with a price list. The University of Syracuse food service department did agree to cooperate with us and sent a list of the June 1981 prices.

A code was devised to record each type of food served in the home and its equivalent market price. Each food item served at home was matched to a food item on the price list using the subject's description of the item and the price of the matching item on the food list was recorded for the price per serving of the food served at home. If no exact match was found using the subject's description, the food items were matched using the item code and the price per serving recorded was the average price of foods assigned that code. For example, a whole orange was categorized as plain fruits (60) and on the price list costs .16 each. Boysenberries, which were not on the price list, were categorized as plain fruits (60) and priced at .14 per serving, the average price of a serving of plain fresh fruit.

Respondents in the study were asked to name the foods offered at each meal for two days. Meals included snacks. No respondent had more than eight meals a day. Data for each meal also included the number of persons served. The amount of each food actually consumed was not given. It was assumed that each person served received one serving of each item listed for a particular meal. Thus, if four persons were served a meal of scrambled eggs, toast, and juice, it was assumed that there were four servings of eggs, four servings of toast, etc.

Two exceptions to this coding procedure were made for 1) baby food and/or formula and 2) beverages. It was assumed that baby food or formula was consumed only by children in the age categories one year or less than a year. When baby food and formula were included in a list of items prepared for an entire family's meal, prices of all items in the list were prorated to reflect only the proportion of persons served who would have consumed each item.

Similarly, prices of beverages were prorated to meet assumptions that children under the age of 12 did not consume coffee or hot tea when milk or soft drinks or beverages such as "Koolaid" were also served, and that no children consumed alcoholic beverages.

Meal prices were computed by summing the per serving prices of each food and multiplying that sum by the number of persons served that meal. The value of food prepared and served each day was computed as the sum of the meal prices for that day. As data were collected for two days, we computed values for day one, for day two, and for an average of the two days.

Analysis

Once the market values of food served at home had been computed, they were analyzed to test for the presence of systematic variation by demographic

characteristics. The demographic characteristics selected for analysis were those previously mentioned in the literature as affecting estimates of value obtained by the income accounting approach. They were age of the younger child (Walker and Woods, 1976), employment of the wife (Walker and Woods, 1976; Gronau, 1973; Adler and Hawrylyshyn, 1978; Hawrylyshyn, 1976), urban/rural location (Sanik, 1979), spouses educations (Leibowitz, 1974), and family income (Gronau, 1973). Sex of children was included because of differing caloric requirements by sex. Also, the United States Department of Agriculture cost of food at home estimates are greater for males than females (U.S.D.A., 1981).

Age of younger child and employment status of the wife have been called the two most important explanatory variables for daily time use (Walker and Woods, 1976; Hawrylyshyn, 1976). For this reason each of the characteristics effects was examined while controlling first for age of younger child then controlling for employment status of wife.

To facilitate comparison of the market value estimate with estimates derived from an income accounting approach, the replacement cost estimate and the opportunity cost estimate of the value of food prepared and served at home were calculated for this sample. To calculate the replacement cost of food the time of each family member in food preparation and meal cleanup was multiplied by the appropriate wage rate taken from the Gauger and Walker article on the dollar value of household work (1980). Their wage rates were used because they were for Syracuse, New York. To compute the opportunity cost of food the time of each family member was multiplied by that person's own wage rate as reported in the time-use questionnaire. If the person was not employed the wage rate was set at zero.

An attempt was made to estimate wage rates for non-employed adults. Using employed wives, wage rate was regressed on age and education. Using employed husbands, wage rate was regressed on education. In both instances the education variable was significant, but estimated wage rates based on the regressions were patently unrealistic. For this reason estimated wage rates were not used.

The same analyses were performed on the replacement cost and opportunity cost estimates were analyzed using the same variables and procedures as described for the market cost estimates. Not only were mean values for the three estimates compared, the pattern of variation by demographic characteristics was compared.

Because the sample was stratified by urban and rural location and by age of the younger child and equal numbers of families were in each cell, weights needed to be assigned to the data in order to be able to generalize to the population of two-parent, two-child households in the Syracuse SMSA. These weights were based on the proportions of each of these families found in the sampling frame in 1977.

RESULTS AND DISCUSSION

Findings regarding the market value of food prepared and served in the home are presented in Tables 1 through 33. The mean market value of food prepared was \$6.50 (s.d.=7.06) for day one, \$6.25 (s.d.=3.33) for day two, and \$6.39 (s.d.=3.91) for the two-day average. At first glance, these values appear relatively low in comparison with United States Department of Agriculture (USDA) estimates of the cost of food at home at all cost levels (USDA, Fall 1981). For June, 1981, the estimated costs for a family of four on a low cost plan ranged from \$59.40 to \$72.00 depending on the ages of the children (USDA, Fall 1981). However, USDA cost estimates assume that food for all snacks and meals is prepared at home. Findings from USDA's 1977-78 Nationwide Food Consumption Survey (NFCS) indicate that at-home food expenditures account for 74.1 percent of total food expenditures, and that average weekly expenditures for food at home are \$41.68 (Smallwood and Blaylock, 1981,p.9). Our results are consistent with the NFCS findings.

The market values of food at home were broken down according to the variables age of younger child, sex of children, husband's education, wife's education, location and wife's employment status. Of these variables, wife's employment status appeared to be most consistently related to differences in market values of home-prepared food. The average daily value of food prepared when the homemaker was employed was \$5.85 (s.d.=3.05), while the mean value of food prepared when the homemaker was non-employed was \$6.72 (s.d.=4.34) (Tables 7-11). It is realistic to assume that this difference in value reflects greater consumption of food away from home by employed homemakers.

Similarly, consumption of food away from home may be reflected in the results of the breakdown by age of the younger child (Tables 3,14,and25).

One would expect the food preparation values to increase directly in relation to the ages of the children; however, the overall trend appears to be curvilinear, with values increasing progressively with the age of the younger child up to the 6-11 age grouping. The fact that values decrease somewhat for families with older children may be related to the increased likelihood of older children eating meals away from home. Guenther and Chandler (1981) report that the proportion of individuals having wither food or beverage away from home increased didrectly with age to a peak of 60 percent among males 23-34 years old and a peak of 55 percent among females 12-14 years old.

As indicated in Tables 1 and 7, the average market value of home-prepared food was somewhat higher for rural than urban households. This difference was fairly consistent across categories with the exception of the breakdown in Tables 7,18,29) where there appears to be an interaction between the vaiables of location and employment status of the wife. The other variables sex of children, husband's education, wife's education, and family income provided no consistent pattern for market values of home-prepared food. Specific cells for homemakers with high school education and households with two female children ages two to five appear to have unusually high values for food prepared during the first day. Some families are known to have prepared food for parties and for guests, but were included in the study to reflect actual food prepared. It is possible that these families may have contributed to the disparate food values in certain cells.

Replacement cost estimates of food prepared at home appear in Tables 34 through 67. Replacement cost was calculated as the sum of all family members' time in food preparation and dishwashing multiplied by the appropriate wage rates in Walker and Gauger (1980). The average daily replacement cost value of food prepared and served at home (Table 34) is \$8.20(s.d.= 3.38). On day

* * * * * C R O S S --- B R E A K D O W N O F * * * * * AGE GROUP OF YOUNGER CHILD * * * * *
 * * * * * LOCATION OF RESIDENCE * * * * * BY ITEM1 * * * * *
 * * * * * VARIABLE AVERAGED... PRDAY AVERAGE MARKET VALUE OF FOOD * * * * *

AREA	MEAN I STD DEV I	ITEM1					ROW TOTAL
		LESS THA I N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEA RS	12-17 YE ARS	
RURAL	1	6.64 I	7.49 I	6.65 I	6.79 I	7.26 I	6.87
	1	3.75 I	2.84 I	2.64 I	2.80 I	5.21 I	3.27
	-1	-	-	-	-	-	-
URBAN	2	5.42 I	6.43 I	6.85 I	5.92 I	5.84 I	6.21
	1	3.03 I	1.59 I	6.70 I	1.52 I	2.49 I	4.11
	-1	-	-	-	-	-	-
COLUMN TOTAL		5.88	6.79	6.80	6.14	6.19	6.39
		3	9	68	87	44	211
		2.54	1.97	5.90	1.95	3.37	3.91

Table 1

***** C R O S S --- B R E A K D O W N O F ***** AGE GROUP OF YOUNGER CHILD
 ***** EMPLOYMENT STATUS OF WIFE *****
 ***** VARIABLE AVERAGED... PRDAY AVERAGE MARKET VALUE OF FOOD *****

ITEM1												ROW
MEAN I	STD DEV I	LESS THA	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR						TOTAL
I	I	N 1 YEAR	I	S	RS	ARS						
WEMPL	---	1	2	3	4	5						
1	1	5.71	6.07	5.18	6.51	5.56						5.85
EMPLOYED LAST WE	1	0.0	1.90	3.07	2.35	3.68						3.05
2	1	5.94	6.96	7.38	5.94	7.47						6.72
NOT EMPLOYED LAS	1	2.44	2.09	6.56	1.68	2.28						4.34
COLUMN TOTAL	---	5.88	6.79	6.80	6.14	6.19						6.39
		3	9	68	87	44						211
		2.54	1.97	5.90	1.95	3.37						3.91

Table 2

* * * * * C R O S S --- B R E A K D O W N U F * * * * * A G E G R O U P O F Y O U N G E R C H I L D
 * * * * * C H I L D S E X S E X O F C H I L D R E N * * * * * B Y I T E M 1 * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . P R D A Y A V E R A G E M A R K E T V A L U E O F F O O D * * * * *

		ITEM1										ROW	
CHILDSEX	MEAN I STD DEV I	LESS THA N 1 YEAR		1 YEAR		2-5 YEAR		6-11 YEA RS		12-17 YE ARS		TOTAL	
		I	I	I	I	I	I	I	I	I	I		
BOTH BOYS	1	6.46	I	6.48	I	6.91	I	6.19	I	6.75	I	6.62	
	I	5.89	I	1.84	I	1.46	I	1.14	I	2.75	I	1.98	
BOTH GIRLS	2	5.23	I	6.23	I	9.65	I	6.53	I	5.39	I	7.80	
	I	0.0	I	2.24	I	9.94	I	1.91	I	1.50	I	7.11	
A GIRL AND A BOY	3	5.71	I	7.61	I	5.11	I	6.06	I	5.97	I	5.81	
	I	3.27	I	2.35	I	2.12	I	2.10	I	4.21	I	2.60	
COLUMN TOTAL	-I-	5.88	I	6.79	I	6.80	I	6.14	I	6.19	I	6.39	
		3		9		68		87		44		211	
		2.54		1.97		5.90		1.95		3.37		3.91	

Table 3

***** C R O S S --- B R E A K D O W N O F *****
 HED ***** EDUCATION OF HUSBAND ***** BY ITEM1 ***** AGE GROUP OF YOUNGER CHILD *****
 ***** VARIABLE AVERAGED... ***** PRDAY ***** AVERAGE MARKET VALUE OF FOOD *****

ITEM1		2-5 YEAR					6-11 YEA		12-17 YE		ROW TOTAL
MEAN I	STD DEV I	LESS THA N 1 YEAR	1 YEAR	S	RS	ARS	5	4	1	5	
HED	10	0.0	4.78	3.36	5.93	5.45	5.42				5.42
LESS THAN HIGH S	0.0	0.0	0.0	0.0	0.0	2.49	2.08				2.08
	12	5.61	5.45	9.45	6.06	5.78	7.27				7.27
HIGH SCHOOL DIPL	0.0	0.0	2.31	11.44	2.81	0.78	7.34				7.34
	14	5.68	6.98	7.12	5.85	6.47	6.39				6.39
PARTIAL COLLEGE	3.71	3.71	2.65	2.38	1.55	2.88	2.14				2.14
	16	6.81	7.00	5.76	6.34	5.73	6.02				6.02
BACHELOR'S DEGREE	0.0	0.0	1.57	1.83	2.03	2.40	2.02				2.02
	18	6.12	7.43	5.01	6.43	7.67	6.41				6.41
GRADUATE DEGREE	0.0	0.0	3.47	3.34	1.14	6.07	3.58				3.58
	COLUMN TOTAL	5.88	6.79	6.80	6.14	6.19	6.39				6.39
	3	3	9	68	87	44	211				211
	2.54	1.97	5.90	1.95	3.37	3.91	3.91				3.91

Table 4

WED	EDUCATION OF WIFE	CROSS--BREA K D O W N	U F	AGE GROUP OF YOUNGER CHILD
VARIABLE AVERAGED...	PRDAY	AVERAGE MARKET VALUE OF FOOD		

ITEM	MEAN		LESS THAN		1 YEAR		2-5 YEAR		6-11 YEAR		12-17 YEAR		ROW TOTAL
	STD DEV	1	1	1	1	2	3	4	5	6	7	8	
LESS THAN HIGH SCHOOL	10	5.71	0.0	3.55	4.89	5.83	0.00	0.00	0.00	0.00	0.00	0.00	5.20
HIGH SCHOOL DIPLOMA	12	5.69	4.31	6.36	8.14	5.88	2.11	2.44	2.44	2.44	2.44	2.44	6.49
PARTIAL COLLEGE	14	6.61	0.0	6.70	5.84	6.01	1.76	5.28	5.28	5.28	5.28	5.28	6.17
BACHELOR'S DEGREE	16	5.70	0.0	7.18	5.74	6.85	2.64	1.75	1.75	1.75	1.75	1.75	6.56
GRADUATE DEGREE	18	4.83	0.0	6.96	7.94	6.56	1.26	4.38	4.38	4.38	4.38	4.38	6.79
COLUMN TOTAL		5.88		6.79	6.80	6.14		6.19					6.39
		3		9	68	87		44					211
		2.54		1.97	5.90	1.95		3.37					3.91

Table 5

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * F A M Y I N C O M E * * * * * A G E G R O U P O F Y O U N G E R C H I L D
 * * * * * V A R I A B L E A V E R A G E D . . . P R D A Y A V E R A G E M A R K E T V A L U E O F F O O D * * * * *
 * * * * *

ITEM1		BY ITEM1										ROW TOTAL
MEAN I STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEAR RS	12-17 YEAR ARS							
FAMY	1	1	2	3	4	5						
8	9.07	5.96	5.85	10.78	8.30							7.32
LESS THAN \$10,000	0.0	0.0	1.44	4.29	0.0							3.04
9	5.62	7.32	7.61	4.21	9.72							7.60
\$10,000-\$11,999	0.0	0.0	0.03	0.00	1.00							2.48
10	5.98	6.73	7.23	5.13	3.88							6.28
\$12,000-\$14,999	0.0	2.08	2.73	1.53	0.31							2.44
11	4.73	6.45	9.00	6.06	4.22							7.14
\$15,000-\$19,999	0.0	2.34	10.01	1.73	1.42							6.92
12	5.42	6.46	4.96	5.60	7.10							5.80
\$20,000-\$24,999	0.0	2.42	2.91	0.61	5.77							3.40
13	4.77	9.04	5.15	6.43	6.77							6.38
\$25,000-\$49,999	0.0	0.0	1.96	1.88	2.98							2.28
14	4.58	6.49	7.45	7.43	5.34							6.69
\$50,000 OR MORE	0.0	0.0	0.0	0.80	1.54							1.45
16	5.71	6.72	5.07	4.59	5.01							4.96
NOT GIVEN	0.0	0.0	1.18	1.96	1.18							1.50
COLUMN TOTAL	5.88	6.79	6.80	6.14	6.19							6.39
	3	9	68	87	44							211
	2.54	1.97	5.90	1.95	3.37							3.91

Table 6

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * *
 * * * * * VARIABLE AVERAGED... PRDAY AVERAGE MARKET VALUE OF FOOD * * * * *
 * * * * * BY WEMPL EMPLOYMENT STATUS OF WIFE * * * * *

CHILDSEX	WEMPL		NOT EMPLOYED	ROW TOTAL
	MEAN I	STD DEV I		
BOTH BOYS	1	1	5.84	6.62
	1	1	1.73	1.98
BOTH GIRLS	2	1	6.06	7.80
	1	1	3.15	7.11
A GIRL AND A BOY	3	1	5.78	5.81
	1	1	3.61	2.60
COLUMN TOTAL	-1	-1	5.85	6.39
			81	211
			3.05	3.91

Table 8

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * EDUCATION OF HUSBAND * * * * *
 * * * * * PRDAY AVERAGE MARKET VALUE OF FOOD * * * * *
 * * * * * WEMPL BY WEMPL EMPLOYMENT STATUS OF WIFE * * * * *
 * * * * * HED * * * * *
 * * * * * VARIABLE AVERAGED... * * * * *
 * * * * *

		WEMPL				ROW	
		MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	TOTAL	
		I	I	LAST WE	OYED LAS	I	
		I	I	1	2	I	
HED		---	---	---	---	---	
		10	1	5.41	5.55	5.42	
LESS THAN HIGH S		1		2.15	3.25	2.08	
		---	---	---	---	---	
		12	1	5.79	8.95	7.27	
HIGH SCHOOL DIPL		1		2.45	10.27	7.34	
		---	---	---	---	---	
		14	1	5.95	6.59	6.39	
PARTIAL COLLEGE		1		2.93	1.71	2.14	
		---	---	---	---	---	
		16	1	5.00	6.40	6.02	
BACHELOR'S DEGREE		1		2.98	1.38	2.02	
		---	---	---	---	---	
		18	1	7.41	5.76	6.41	
GRADUATE DEGREE		1		4.37	2.91	3.58	
		---	---	---	---	---	
COLUMN TOTAL				5.85	6.72	6.39	
				81	130	211	
				3.05	4.34	3.91	

Table 9

MEAN I	STD DEV I	WEMPL	EMPLOYED LAST WE	NOT EMPLOYED LAS	ROW TOTAL
10	1	1	5.36	4.62	5.20
LESS THAN HIGH S	1	1	0.88	0.97	0.88
12	1	1	4.80	7.58	6.49
HIGH SCHOOL DIPL	1	1	2.64	6.61	5.55
14	1	1	6.67	5.95	6.17
PARTIAL COLLEGE	1	1	4.28	2.08	2.91
16	1	1	6.75	6.49	6.56
BACHELOR'S DEGREE	1	1	2.99	1.76	2.13
18	1	1	6.56	7.32	6.79
GRADUATE DEGREE	1	1	1.83	3.31	2.30
COLUMN TOTAL			5.85	6.72	6.39
			81	130	211
			3.05	4.34	3.91

22

***** C R O S S --- B R E A K D O W N O F *****
 ***** FAMILY INCOME *****
 ***** FAMILY *****
 ***** PR DAY *****
 ***** AVERAGE MARKET VALUE OF FOOD *****
 ***** BY WEMPL *****
 ***** EMPLOYMENT STATUS OF WIFE *****

	WEMPL		NOT EMPL OYED LAS	ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE		
FAMY	---	1 I	2 I	
LESS THAN \$10,00 I	8 I	7.29 I	7.34 I	7.32
		4.47 I	0.95 I	3.04
\$10,000--\$11,999 I	9 I	7.25 I	7.92 I	7.60
		3.16 I	2.40 I	2.48
\$12,000--\$14,999 I	10 I	5.62 I	6.62 I	6.28
		3.39 I	1.81 I	2.44
\$15,000--\$19,999 I	11 I	4.65 I	8.55 I	7.14
		1.74 I	8.28 I	6.92
\$20,000--\$24,999 I	12 I	6.07 I	5.48 I	5.80
		4.22 I	2.19 I	3.40
\$25,000--\$49,999 I	13 I	5.84 I	6.63 I	6.38
		2.81 I	1.99 I	2.28
\$50,000 OR MORE I	14 I	6.89 I	5.89 I	6.69
		1.34 I	2.03 I	1.45
NOT GIVEN I	16 I	5.42 I	4.87 I	4.96
		2.46 I	1.34 I	1.50
COLUMN TOTAL		5.85	6.72	6.39
		81	130	211
		3.05	4.34	3.91

Table 11

ITEM1

MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEARS	6-11 YEARS	12-17 YEARS	ROW TOTAL
		I	I	S	RS	ARS	
EMPL		1	2	3	4	5	
1	6.81	6.54	4.62	7.39	4.65		5.75
EMPLOYED LAST WE	0.0	3.80	2.59	2.78	3.01		3.12
2	5.86	6.56	8.22	5.84	7.37		6.97
NOT EMPLOYED LAS	2.93	3.05	13.47	2.49	3.66		6.63
COLUMN TOTAL	6.09	6.55	7.27	6.40	5.55		6.50
	3	9	68	87	44		211
	3.67	2.92	11.70	2.68	3.45		7.06

[illegible]

Table 78

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** WEMPL ** ** ** EMPLOYMENT STATUS OF WIFE ** ** ** CROSS--BREA KDOWN OF ** ** ** AGE GROUP OF YOUNGER CHILD ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** BY ITEM1 ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** VARIABLE AVERAGED... ** ** ** TOPCOST1 OPPORTUNITY COST OF FOOD ON DAY 1 ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

		ITEM1										ROW	
MEAN I		STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR					TOTAL	
		I	I	I	I	I	I	I	I	I	I		
WEMPL		I	I	I	I	I	I	I	I	I	I		
EMPLOYED LAST WE	1	10.37	8.46	14.52	34.48	39.73	56.32						
	I	0.0	14.86	22.93	62.38	64.58							
NOT EMPLOYED LAS	2	1.64	1.23	1.60	6.73	93.07	14.19						
	I	6.21	2.59	3.36	18.53	148.79	57.70						
COLUMN TOTAL		3.76	2.61	5.02	16.66	57.51	20.73						
		3	9	68	87	44	211						
		8.26	5.77	13.21	41.97	102.14	57.64						

Table 79

ITEM1

Table 80

ITEM1

Table 83

* * * * * C R O S S --- B R E A K D O W N O F * * * * * E M P L O Y M E N T S T A T U S O F W I F E
 * * * * * C H I L D S E X S E X O F C H I L D R E N * * * * *
 * * * * * V A R I A B L E A V E R A G E D T O P C O S T 1 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 1

CHILDSEX	WEMPL		NOT EML		ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE I 1	OYED LAS 2	I 2	
BOTH BOYS	1	35.48	1.78	1	19.17
	1	66.45	2.69	1	50.26
BOTH GIRLS	2	25.04	4.17	1	11.07
	1	30.50	16.00	1	23.67
A GIRL AND A BOY	3	30.80	21.34	1	24.67
	1	57.51	72.66	1	67.62
COLUMN TOTAL		31.20	14.19		20.73
		81	130		211
		56.32	57.70		57.64

Table 85

* * * * * HED * * * * * EDUCATION OF HUSBAND * * * * * C R O S S --- B R E A K D O W N O F * * * * * E M P L O Y M E N T S T A T U S O F W I F E
 * * * * * V A R I A B L E A V E R A G E D . . . * * * * * T O P C O S T 1 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 1 * * * * * B Y W E M P L * * * * *

		WEMPL				ROW	
MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	LAST WE	LAST WE	TOTAL	
		1	2	1	2		
HED		1	2	1	2		
		1	2	1	2		
LESS THAN HIGH S	10	8.60	46.87	1	1	12.45	
		16.01	109.06	1	1	24.31	
HIGH SCHOOL DIPL	12	17.81	0.18	1	1	9.53	
		34.35	0.44	1	1	26.29	
PARTIAL COLLEGE	14	15.98	10.17	1	1	11.91	
		23.05	24.35	1	1	23.90	
BACHELOR'S DEGREE	16	36.87	14.39	1	1	20.51	
		58.95	60.30	1	1	60.37	
GRADUATE DEGREE	18	80.63	32.02	1	1	51.13	
		93.53	102.78	1	1	100.72	
COLUMN TOTAL		31.20	14.19			20.73	
		81	130			211	
		56.32	57.70			57.64	

Table 86

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** C R O S S --- B R E A K D O W N O F ** ** ** ** ** ** ** ** ** ** ** **
 WED E D U C A T I O N O F W I F E ** ** ** ** ** ** ** ** ** ** ** ** B Y W E M P L E M P L O Y M E N T S T A T U S O F W I F E ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 V A R I A B L E A V E R A G E D . . . T O P C O S T 1 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 1 ** ** ** ** ** ** ** ** ** ** ** **

		WEMPL							
		MEAN I							
		STD DEV I	EMPLOYED I	NOT EMPLOYED I	LAST WE	OYED LAS			ROW
		I	I	I	1	2			TOTAL
WED		---	I	I	I	I			
LESS THAN HIGH S		10 I	9.71 I	3.00 I					8.33
			1.58 I	6.94 I					3.84
		-I	I	I	I	I			
HIGH SCHOOL DIPL		12 I	18.27 I	1.41 I					8.07
			33.09 I	10.31 I					23.59
		-I	I	I	I	I			
PARTIAL COLLEGE		14 I	33.44 I	23.48 I					26.52
			59.83 I	73.81 I					69.51
		-I	I	I	I	I			
BACHELOR'S DEGREE		16 I	43.79 I	18.32 I					25.23
			71.97 I	75.73 I					74.77
		-I	I	I	I	I			
GRADUATE DEGREE		18 I	57.73 I	30.04 I					49.30
			82.49 I	24.05 I					70.28
		-I	I	I	I	I			
COLUMN TOTAL			31.20	14.19					20.73
			81	130					211
			56.32	57.70					57.64

Table 87

ITEM1

	MEAN I	STD DEV I	1 LESS THA I N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEAR RS	12-17 YE ARS	ROW TOTAL
AREA	1	1	2.77	3.95	7.87	6.81	50.26	15.66
RURAL	1	1	11.91	7.02	22.32	16.33	63.75	36.44
URBAN	2	1	6.29	1.90	5.94	12.58	50.01	17.94
COLUMN TOTAL	1	1	15.18	3.56	15.23	20.31	76.55	41.91
	1	1	4.96	2.59	6.44	11.09	50.08	17.34
	3		9	68	87	44		211
	11.30		4.61	17.18	19.44	72.83		40.47

Table 89

CROSS-BREACKDOWN OF AGE GROUP OF YOUNGER CHILD									
CHILDSEX SEX OF CHILDREN									
VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
CHILDSEX									
BOTH BOYS									
BOTH GIRLS									
A GIRL AND A BOY									
COLUMN TOTAL									
ROW TOTAL									
12-17 YEA									
6-11 YEA									
2-5 YEAR									
1 YEAR									
LESS THAN 1 YEAR									
1									
2									
3									
4									
5									
18.65									
42.83									
14.12									
22.09									
17.96									
44.49									
17.34									
211'									
40.47									

Table 91

118

Table 92

CROSS--BREA K D W N O F									
EDUCATION OF WIFE			BY ITEM1		AGE GROUP OF YOUNGER CHILD				
TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2									
ITEM1									
MEAN I	STD DEV I	LESS THA	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW		
		IN 1 YEAR		S	RS	ARS	TOTAL		
WED	---	1	2	3	4	5			
10	1	0.42	0.0	5.25	1.88	7.69	3.95		
LESS THAN HIGH S	1	0.0	0.0	3.17	0.00	0.0	2.99		
12	1	3.94	3.82	8.86	8.89	18.26	10.79		
HIGH SCHOOL DIPL	1	22.38	10.78	19.80	20.00	28.13	21.79		
14	1	2.89	2.96	5.33	9.44	68.17	16.81		
PARTIAL COLLEGE	1	0.0	4.85	22.39	17.67	64.83	36.91		
16	1	9.91	1.75	2.76	2.51	97.10	28.93		
BACHELOR'S DEGREE	1	0.0	4.64	3.01	3.79	106.32	69.15		
18	1	2.32	2.63	11.18	35.61	15.09	25.15		
GRADUATE DEGREE	1	0.0	0.0	2.86	19.99	15.56	20.32		
COLUMN TOTAL	1	4.96	2.59	6.44	11.09	50.08	17.34		
		3	9	68	87	44	211		
		11.30	4.61	17.18	19.44	72.83	40.47		

Table 93

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 FAMY FAMILY INCOME CROSS---BREA K D U W N O F AGE GROUP OF YOUNGER CHILD
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2

		ITEM1										ROW TOTAL
MEAN I STD DEV I		LESS THA I N 1 YEAR		1 YEAR		2-5 YEAR S		6-11 YEA RS		12-17 YE AKS		
FAMY		I		I		I		I		I		
8		0.32		1.39		3.80		1.75		89.84		8.20
LESS THAN \$10,00		0.0		0.0		3.66		2.40		0.0		22.00
9		0.32		0.0		0.27		2.55		2.43		1.52
\$10,000-\$11,999		0.0		0.0		0.43		0.00		1.63		1.47
10		8.86		2.51		11.48		3.48		4.82		7.60
\$12,000-\$14,999		0.0		5.29		26.84		2.99		2.30		19.18
11		2.69		1.65		1.93		7.52		16.64		5.99
\$15,000-\$19,999		0.0		3.77		2.63		18.40		17.11		13.64
12		11.50		2.85		16.46		3.44		88.11		29.54
\$20,000-\$24,999		0.0		5.99		27.33		3.33		109.18		64.88
13		3.76		0.63		1.58		13.73		49.55		21.85
\$25,000-\$49,999		0.0		0.0		4.72		20.84		74.33		44.86
14		0.0		5.56		8.33		46.10		21.63		33.97
\$50,000 OR MORE		0.0		0.0		0.0		18.38		20.33		22.67
16		0.54		7.13		1.23		0.0		80.61		21.12
NOT GIVEN		0.0		0.0		1.88		0.0		63.06		46.12
COLUMN TOTAL		4.96		2.59		6.44		11.09		50.08		17.34
		3		9		6.4		87		44		211
		11.30		4.61		17.18		19.44		72.83		40.47

Table 94

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 CHILDSEX SEX OF CHILDREN
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

CHILDSEX	WEMPL		NOT EML OYED LAS	ROW TOTAL
	MEAN I	STD DEV I		
BOTH BOYS	1	1	1	1
	1	34.97	1	1.23
	1	55.21	1	2.22
BOTH GIRLS	2	1	1	1
	1	27.71	1	7.42
	1	28.66	1	14.38
A GIRL AND A BOY	3	1	1	1
	1	31.13	1	10.80
	1	62.29	1	28.89
COLUMN TOTAL	-1	-1	-1	-1
		31.69	8.40	17.34
		81	130	211
		55.26	23.71	40.47

Table 96

*** ** ** ** ** *** ** ** ** * C R O S S --- B R E A K D O W N O F * * * * *
 *** ** ** ** * EDUCATION OF WIFE * * * * * EMPLOYMENT STATUS OF WIFE * * * * *
 *** ** ** ** * VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2 * * * * *
 *** ** ** ** *

WEMPL				ROW
MEAN	STD DEV	EMPLOYED	NOT EMPL	TOTAL
I	I	LAST WE	OYED LAS	
WED	I	I	2 I	
	I	I	I	
10	I	4.31 I	2.54 I	3.95
LESS THAN HIGH S	I	2.64 I	5.78 I	2.99
	-1	I	I	
12	I	16.50 I	7.06 I	10.79
HIGH SCHOOL DIPL	I	25.84 I	18.02 I	21.79
	-1	I	I	
14	I	36.61 I	8.13 I	16.81
PARTIAL COLLEGE	I	56.59 I	18.93 I	36.91
	-1	I	I	
16	I	79.70 I	10.05 I	28.93
BACHELOR'S DEGREE	I	105.79 I	36.43 I	69.15
	-1	I	I	
18	I	30.04 I	13.96 I	25.15
GRADUATE DEGREE	I	21.32 I	13.27 I	20.32
	-1	I	I	
COLUMN TOTAL		31.69	8.40	17.34
		81	130	211
		55.26	23.71	40.47

Table 98

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** FAM ** ** ** FAMILY INCOME ** ** ** CROSS---BREAKDOWN OF ** ** ** EMPLOYMENT STATUS OF WIFE ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** VARIABLE AVERAGED... ** ** ** TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2 ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

		WEMPL				ROW	
		MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	TOTAL	
				LAST WE	OYED LAS		
				1	2		
FAMY							
		8		5.64	10.82		8.20
LESS THAN \$10,00				1.89	33.26		22.00
		9		2.88	0.27		1.52
\$10,000-\$11,999				0.35	0.33		1.47
		10		14.10	4.30		7.60
\$12,000-\$14,999				30.58	9.18		19.18
		11		13.07	1.99		5.99
\$15,000-\$19,999				17.87	8.58		13.64
		12		53.63	1.29		29.54
\$20,000-\$24,999				81.68	1.54		64.88
		13		32.34	17.12		21.85
\$25,000-\$49,999				59.54	36.32		44.86
		14		41.10	6.57		33.97
\$50,000 OR MORE				19.66	1.33		22.67
		16		80.69	9.80		21.12
NOT GIVEN				96.08	20.13		46.12
COLUMN TOTAL				31.69	8.40		17.34
				81	130		211
				55.26	23.71		40.47

Table 99

directly from or enjoy the process of preparing and serving food, or they are inefficient. The market value of the food prepared and served is consistently less than the value of the labor used in the process. If you believe that replacement costs are net of the labor value used to produce utility directly you would conclude that families are inefficient. If they are inefficient they either do not know that they are or they are unable to change their production technology.

The feasibility of estimating the market cost of outputs from household food production has been demonstrated. The average market cost of food prepared and served at home is \$6.50. An examination of the market costs for families with varying characteristics reveals no consistent pattern of differences except for wife's employment status. Families with employed wives consistently had lower estimated market costs.

Comparing market cost estimates with replacement and opportunity cost estimates it becomes clear that family characteristics affect the estimates differentially. Family characteristics had a greater influence on opportunity cost estimates than on either of the other two. Wife's employment status affects all three cost estimates but the effect differed with the estimation method. Families with employed wives had lower market cost and replacement cost estimates than families with nonemployed wives but they had higher opportunity cost estimates.

The literature has assumed that variables which affect the quantity of time inputs to household production also affect the value of that production (Adler and Hawrylyshyn, 1980; Walker and Gauger, 1973, 1980). Our results indicate this may not be the case. The only characteristic which consistently affects all three estimates is wife's employment status. For the other variables examined either no effect was evident or the effect disappeared when

age of the younger child or wife's employment status was controlled. Our results are only descriptive. Further analysis should be done to ascertain the effects of family characteristics on the value of household production.

Although family characteristics affect the estimates differentially, the relative size of those estimates is consistent. Market costs are lowest, followed closely by replacement costs and then opportunity costs. These results indicate that families are either inefficient food producers or they get pleasure out of the process itself. Further work should be done to extend the market cost estimation technique to other household production activities. Then it will be possible to ascertain whether the relationships among the valuation methods estimates here are specific to food preparation.

APPENDIX A

Unweighted Results

	Table Number
Cross-breakdown of average market value of food	
Age group of younger child	
by location of residence	100
by employment status of wife	101
by sex of children	102
by education of husband	103
by education of wife	104
by family income	105
Employment status of wife	
by location of residence	106
by sex of children	107
by education of husband	108
by education of wife	109
by family income	110
Cross-breakdown of market value of food on day 1	
Age group of younger child	
by location of residence	111
by employment status of wife	112
by sex of children	113
by education of husband	114
by education of wife	115
by family income	116
Employment Status of wife	
by location of residence	117
by sex of children	118
by education of husband	119
by education of wife	120
by family income	121
Cross-breakdown of market value of food on day 2	
Age group of younger child	
by location of residence	122
by employment status of wife	123
by sex of children	124
by education of husband	125
by education of wife	126
by family income	127

Employment status of wife	
by location of residence	128
by sex of children	129
by education of husband	130
by education of wife	131
by family income	132

Cross-breakdown of average replacement cost of food

Age group of younger child	
by location of residence	133
by employment status of wife	134
by sex of children	135
by education of husband	136
by education of wife	137
by family income	138

Employment status of wife	
by location of residence	139
by sex of children	140
by education of husband	141
by education of wife	142
by family income	143

Cross-breakdown of Average replacement cost of food day 1

Age group of younger child	
by location of residence	144
by employment status of wife	145
by sex of children	146
by education of husband	147
by education of wife	148
by family income	149

Employment status of wife	
by location of residence	150
by sex of children	151
by education of husband	152
by education of wife	153
by family income	154

Cross-breakdown of average replacement cost of food day 2

Age group of younger child	
by location of residence	155
by employment status of wife	156
by sex of children	157
by education of husband	158
by education of wife	159
by family income	160

Employment status of wife	
by location of residence	161
by sex of children	162
by education of husband	163
by education of wife	164
by family income	165

Cross-breakdown of average opportunity cost of food

Age group of younger child	
by location of residence	166
by employment status of wife	167
by sex of children	168
by education of husband	169
by education of wife	170
by family income	171

Employment status of wife	
by location of residence	172
by sex of children	173
by education of husband	174
by education of wife	175
by family income	176

Cross-breakdown of average opportunity cost of food day 1

Age group of younger child	
by location of residence	177
by employment status of wife	178
by sex of children	179
by education of husband	180
by education of wife	181
by family income	182

Employment status of wife	
by location of residence	183
by sex of children	184
by education of husband	185
by education of wife	186
by family income	187

Cross-breakdown of average opportunity cost of food day 2

Age group of younger child	
by location of residence	188
by employment status of wife	189
by sex of children	190
by education of husband	191
by education of wife	192
by family income	193

Employment status of wife	
by location of residence	194
by sex of children	195
by education of husband	196
by education of wife	197
by family income	198

Table 100

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
AREA	LOCATION OF RESIDENCE	PRDAY	AVERAGE MARKET VALUE OF FOOD	BY ITEM	12-17 YE	6-11 YEA	2-5 YEAR	1 YEAR	AGE GROUP OF YOUNGER CHILD
VARIABLE AVERAGED...					ARS	RS	S		
ITEM1	LESS THAN 1 YEAR	1 YEAR	2 YEAR	3 YEAR	4 YEAR	5 YEAR	6-11 YEA	12-17 YE	
STD DEV	1 YEAR	2 YEAR	3 YEAR	4 YEAR	5 YEAR	6-11 YEA	12-17 YE	ARS	
AREA	1	2	3	4	5	6-11 YEA	12-17 YE	ARS	
RURAL	1	7.49	6.65	6.74	7.26	6.96	6.53	210	
	1	1.82	2.63	2.80	5.10	3.11	3.49	3.33	
URBAN	2	5.42	6.85	5.92	5.84	6.09	6.53	210	
	1	2.25	6.80	1.55	2.52	3.49	6.53	210	
COLUMN TOTAL	6.03	6.96	6.75	6.35	6.55	6.96	6.53	210	
	42	42	42	42	42	6.96	6.53	210	
	2.12	2.02	5.09	2.28	4.03	6.96	6.53	210	

Table 101

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
BY ITEM1									
AVERAGE MARKET VALUE OF FOOD									
PRDAY									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
1 YEAR									
2-5 YEAR									
6-11 YEAR									
12-17 YEAR									
TOTAL									
WEMPL									
EMPLOYED LAST WE									
NOT EMPLOYED LAST									
COLUMN TOTAL									
1	5.67	6.25	6.03	6.97	6.21	6.28			
2	2.81	1.38	3.40	2.96	4.65	3.57			
1	6.12	7.16	7.11	5.97	7.21	6.67			
2	1.93	2.14	5.78	1.69	2.39	3.19			
6.03	6.96	6.75	6.35	6.55	6.53				
42	42	42	42	42	210				
2.12	2.02	5.09	2.28	4.03	3.33				

Table 102

CROSS-BREACKDOWN OF AGE GROUP OF YOUNGER CHILD												
CHILDSEX SEX OF CHILDREN			PRDAY AVERAGE MARKET VALUE OF FOOD			BY ITEM1		AGE GROUP OF YOUNGER CHILD				
VARIABLE AVERAGED...			1 YEAR			2-5 YEAR		6-11 YEA		12-17 YE		
ITEM1			LESS THA		S		RS		ARS		TOTAL	
MEAN I			N 1 YEAR		I		I		I		I	
STD DEV I			I		I		I		I		I	
CHILDSEX			1		2		3		4		5	
BOTH BOYS			1	6.25	6.56	6.37	6.12	6.62	6.42			
			1	2.15	1.71	1.84	1.38	2.66	2.01			
BOTH GIRLS			-	-	-	-	-	-	6.76			
			2	5.48	6.15	9.30	6.51	5.50	4.93			
A GIRL AND A BOY			1	2.17	1.89	9.15	1.90	1.75	6.49			
			-	-	-	-	-	-	3.14			
COLUMN TOTAL			6.03	6.96	6.75	6.35	6.55	6.58				
			42	42	42	42	42	210				
			2.12	2.02	5.09	2.28	4.03	3.33				

Table 105

*** FAMY *** FAMILY INCOME *** C R O S S --- B R E A K D O W N O F *** AGE GROUP OF YOUNGER CHILD ***
 *** VARIABLE AVERAGED... PRDAY AVERAGE MARKET VALUE OF FOOD ***

		ITEM1										ROW	
MEAN I		STD DEV I		LESS THA		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE	
		I N 1 YEAR		I		2 I		S		RS		ARS	
FAMY		I		I		I		I		I		I	
LESS THAN \$10,000		8 I		8.71 I		5.96 I		5.31 I		10.78 I		8.30 I	
\$10,000-\$11,999		9 I		5.88 I		7.32 I		7.61 I		4.21 I		10.14 I	
\$12,000-\$14,999		10 I		6.11 I		7.04 I		7.22 I		5.40 I		4.01 I	
\$15,000-\$19,999		11 I		4.73 I		6.64 I		8.31 I		6.43 I		4.40 I	
\$20,000-\$24,999		12 I		5.52 I		6.60 I		5.51 I		5.53 I		7.70 I	
\$25,000-\$49,999		13 I		5.25 I		9.18 I		5.50 I		6.59 I		7.11 I	
\$50,000 OR MORE		14 I		4.58 I		6.49 I		7.45 I		7.43 I		4.86 I	
NOT GIVEN		16 I		5.63 I		6.93 I		5.07 I		5.30 I		4.54 I	
COLUMN TOTAL		6.03		6.96		6.75		6.35		6.55		6.53	
		42		42		42		42		42		210	
		2.12		2.02		5.09		2.28		4.03		3.33	

Table 106

CROSS--BREAK DOWN OF EMPLOYMENT STATUS OF WIFE,									
BY WEMPL									
AVERAGE MARKET VALUE OF FOOD									
PRDAY									
LOCATION OF RESIDENCE									
WEMPL									
NOT EML									
OYED LAS									
ROW									
TOTAL									
AREA	MEAN I	STD DEV I	EMPLOYED LAST WE	1	2	1	2	1	2
RURAL	1	1	7.22	1	6.80	1	6.96	3.11	
URBAN	2	1	5.18	1	6.55	1	6.09	3.49	
COLUMN TOTAL	-1	-1	6.28	6.67	134	3.19	6.53	210	3.33

Table 107

[illegible]

Table 108

C R O S S---B R E A K D O W N O F									
E D U C A T I O N O F H U S B A N D					E M P L O Y M E N T S T A T U S O F W I F E				
V A R I A B L E A V E R A G E D...					B Y W E M P L				
P R D A Y					A V E R A G E M A R K E T V A L U E O F F O O D				
W E M P L					R O W				
M E A N I					T O T A L				
S T D D E V I					E M P L O Y E D L A S T W E				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I									

Table 109

*** WED *** EDUCATION OF WIFE *** C R O S S --- B R E A K D O W N O F *** EMPLOYMENT STATUS OF WIFE ***
 *** VARIABLE AVERAGED... *** PR DAY *** AVERAGE MARKET VALUE OF FOOD *** BY WEMPL ***

		WEMPL				ROW	
MEAN I		EMPLOYED		NOT EMPL		TOTAL	
STD DEV I	I	LAST WE	I	OYED LAS	I		
---	I	1	I	2	I		
WED	---	---	---	---	---		
10	I	4.88	I	4.82	I	4.84	
LESS THAN HIGH S	I	1.33	I	1.27	I	1.19	
---	I	---	I	---	I		
12	I	5.20	I	6.65	I	6.16	
HIGH SCHOOL DIPL	I	2.78	I	4.58	I	4.09	
---	I	---	I	---	I		
14	I	7.53	I	6.45	I	6.79	
PARTIAL COLLEGE	I	5.45	I	1.93	I	3.45	
---	I	---	I	---	I		
16	I	6.55	I	7.27	I	7.01	
BACHELOR'S DEGREE	I	2.51	I	2.26	I	2.35	
---	I	---	I	---	I		
18	I	6.31	I	6.62	I	6.43	
GRADUATE DEGREE	I	1.97	I	2.86	I	2.28	
---	I	---	I	---	I		
COLUMN TOTAL		6.28		6.67		6.53	
		76		134		210	
		3.57		3.19		3.33	

C R O S S --- B R E A K D O W N									
O F E M P L O Y M E N T S T A T U S O F W I F E									
A V E R A G E M A R K E T V A L U E O F F O O D									
B Y W E M P L									
P R D A Y									
F A M Y									
F A M Y I N C O M E									
V A R I A B L E A V E R A G E D . . .									
W E M P L									
N O T E M P L									
T O T A L									
M E A N I E M P L O Y E D L A S T W E									
S T D D E V I L A S T W E									
F A M Y									
8	1	1	8.67	1	7.24	1	7.79		
	1	1	4.45	1	1.70	1	2.97		
LESS THAN \$10,00	1	1		1	6.92	1	6.90		
	1	1	6.76	1	2.48	1	2.49		
9	1	1	3.60	1		1	6.50		
	1	1		1	6.53	1	2.33		
\$10,000-\$11,999	1	1	6.36	1	1.95	1	6.68		
	1	1	3.73	1		1	5.35		
10	1	1		1	7.74	1			
\$12,000-\$14,999	1	1	4.74	1	6.30	1	6.33		
	1	1	1.92	1		1	3.85		
11	1	1		1	6.27	1	6.67		
\$15,000-\$19,999	1	1	6.38	1	2.24	1	2.57		
	1	1	4.76	1		1			
12	1	1		1	6.74	1			
\$20,000-\$24,999	1	1	6.56	1	2.39	1	6.00		
	1	1	2.88	1		1	1.69		
13	1	1		1	5.47	1			
\$25,000-\$49,999	1	1	6.31	1	2.00	1	5.46		
	1	1	1.63	1		1	1.74		
14	1	1		1	5.40	1			
\$50,000 OR MORE	1	1	5.68	1	1.44	1	6.53		
	1	1	2.82	1		1	210		
16	1	1		1	6.67	1	3.33		
NOT GIVEN	1	1	6.28	1	134	1			
COLUMN TOTAL			76		3.19				
			3.57						

Table 111

C R O S S ---B R E A K D O W N O F													
A G E G R O U P O F Y O U N G E R C H I L D													
M A R K E T V A L U E O F F O O D O N D A Y 1													
P R D A Y 1													
B Y I T E M 1													
L O C A T I O N O F R E S I D E N C E													
A R E A													
V A R I A B L E A V E R A G E D . . .													
I T E M 1													
M E A N I		L E S S T H A N 1 Y E A R		1 Y E A R		2 - 5 Y E A R		6 - 11 Y E A R		12 - 17 Y E A R		R O W T O T A L	
S T D D E V I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I		I		I		I	
I		I		I		I							

Table 112

CROSS--BREA KDOWN OF										AGE GROUP OF YOUNGER CHILD									
EMPLOYMENT STATUS OF WIFE					BY ITEM1														
WEMPL					PRDAY1					MARKET VALUE OF FOOD ON DAY 1									
VARIABLE AVERAGED...																			
ITEM1																			
MEAN I		STD DEV I		LESS THA		1 YEAR		2-5 YEAR		6-11 YEAR		12-17 YE		TOTAL					
		IN 1 YEAR		I		I		S		RS		ARS							
WEMPL		I		I		I		I		I		I		I					
EMPLOYED LAST WE I		I		I		I		I		I		I		I					
NOT EMPLOYED LAS I		I		I		I		I		I		I		I					
COLUMN TOTAL		I		I		I		I		I		I		I					
		6.24		6.78		6.85		6.55		5.68		6.42							
		42		42		42		42		42		210'							
		3.06		3.02		9.77		2.91		3.58		5.17							

Table 113

CROSS--BREA K D O W N O F									
BY ITEM1 AGE GROUP OF YOUNGER CHILD									
MARKET VALUE OF FOOD ON DAY 1									
PRDAY1									
ITEM1									
CHILDSEX	MEAN I	STD DEV I	LESS THA I	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ROW	
			I N 1 YEAR		S	RS	ARS	TOTAL	
			I	2 I	3 I	4 I	5 I		
BOTH BOYS	1	I	6.46 I	6.79 I	6.15 I	6.72 I	5.96 I	6.41	
	I	I	3.52 I	3.47 I	1.37 I	1.84 I	3.69 I	3.10	
BOTH GIRLS	2	I	5.85 I	5.48 I	10.77 I	6.80 I	4.52 I	6.87	
	I	I	2.91 I	2.45 I	18.53 I	1.56 I	2.21 I	9.45	
A GIRL AND A BOY	3	I	6.20 I	7.82 I	5.21 I	6.45 I	5.94 I	6.24	
	I	I	2.89 I	2.70 I	3.27 I	3.38 I	4.01 I	3.34	
COLUMN TOTAL			6.24	6.78	6.85	6.55	5.68	6.42	
			42	42	42	42	42	210	
			3.06	3.02	9.77	2.91	3.58	5.17	

Table 114

[illegible]

Table 115

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
EDUCATION OF WIFE		BY ITEM1		6-11 YEA		12-17 YE		ROW	
STD DEV I	LESS THA	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ARS		TOTAL	
1	1	1	1	1	1	1	1	1	1
10	5.68	4.03	4.45	7.09	3.33				4.89
12	1.58	0.0	1.44	0.0	0.0				1.53
14	5.35	6.11	9.00	5.83	4.94				6.34
16	1.97	2.70	14.94	2.27	2.79				7.64
18	7.62	6.51	5.47	6.72	7.12				6.67
	4.44	1.61	3.64	2.47	4.04				3.27
	5.44	7.52	4.95	7.51	5.92				6.41
	1.88	3.97	2.96	5.69	3.34				3.65
	8.19	6.52	6.96	7.05	4.94				6.55
	3.58	2.94	0.28	1.31	5.52				3.37
COLUMN TOTAL	6.24	6.78	6.85	6.55	5.68				6.42
	42	42	42	42	42				210
	3.06	3.02	9.77	2.91	3.58				5.17

Table 116

* * * * * FAMY * * * * * C R O S S --- B R E A K D O W N O F * * * * * A G E G R O U P O F Y O U N G E R C H I L D
 * * * * * F A M I L Y I N C O M E * * * * * M A R K E T V A L U E O F F O O D O N D A Y * * * * *
 * * * * * V A R I A B L E A V E R A G E D P R O D A Y 1 * * * * *

MEAN I		ITEM1											ROW
STD DEV I	I	LESS	THA	1	YEAR	2-5	YEAR	6-11	YEA	12-17	YE	TOTAL	
	I	I	N 1	YEAR	S	I	RS	RS	ARS				
FAMY	I	I	I	I	I	I	I	I	I	I	I		
8	I	9.60	I	6.82	I	5.60	I	7.17	I	8.46	I	7.79	
LESS THAN \$10,00	I	5.43	I	3.95	I	2.61	I	1.69	I	0.0	I	3.91	
9	I	5.43	I	7.94	I	6.65	I	4.47	I	12.53	I	7.03	
\$10,000-\$11,999	I	2.64	I	4.02	I	0.08	I	0.0	I	1.20	I	3.38	
10	I	5.83	I	6.79	I	6.31	I	4.56	I	3.72	I	6.01	
\$12,000-\$14,999	I	1.68	I	3.72	I	2.57	I	2.30	I	0.55	I	2.82	
11	I	5.28	I	6.05	I	10.61	I	7.34	I	4.00	I	7.52	
\$15,000-\$19,999	I	2.87	I	2.01	I	18.66	I	2.21	I	2.16	I	10.68	
12	I	5.48	I	5.69	I	3.96	I	6.49	I	5.13	I	5.33	
\$20,000-\$24,999	I	2.06	I	2.16	I	3.56	I	1.43	I	3.78	I	2.80	
13	I	7.26	I	9.38	I	5.27	I	7.01	I	6.83	I	6.94	
\$25,000-\$49,999	I	4.34	I	2.46	I	2.63	I	3.81	I	3.50	I	3.52	
14	I	4.49	I	8.80	I	7.24	I	8.12	I	3.93	I	6.07	
\$50,000 OR MORE	I	0.0	I	0.0	I	0.0	I	0.62	I	1.48	I	2.34	
16	I	5.50	I	8.02	I	5.45	I	4.75	I	3.01	I	5.23	
NOT GIVEN	I	1.42	I	4.19	I	2.84	I	4.19	I	2.40	I	3.03	
COLUMN TOTAL		6.24		6.78		6.85		6.55		5.68		6.42	
		42		42		42		42		42		210	
		3.06		3.02		9.77		2.91		3.58		5.17	

Table 117

C R O S S---B R E A K D O W N O F									
E M P L O Y M E N T S T A T U S U F					W I F E				
A R E A					B Y W E M P L				
L O C A T I O N O F R E S I D E N C E					M A R K E T V A L U E O F F O O D O N D A Y 1				
V A R I A B L E A V E R A G E D . . .					P R D A Y 1				
W E M P L									
M E A N 1		E M P L O Y E D		N O T E M P L		R O W			
S T D D E V 1		L A S T W E		O Y E D L A S		T O T A L			
		1		2					
A R E A		1		2					
R U R A L		1	6.54	1	6.68	1	6.62	3.22	
U R B A N		2	5.39	1	6.63	1	6.22	6.58	
C O L U M N T O T A L		6.01	6.65	134	5.91	6.42	210	5.17	

Table 118

C R O S S --- B R E A K D O W N O F									
CHILDSEX SEX OF CHILDREN					BY WEMPL				
VARIABLE AVERAGED...					EMPLOYMENT STATUS OF WIFE				
PRDAY1					MARKET VALUE OF FOOD ON DAY 1				
WEMPL									
MEAN I		STD DEV I		EMPLOYED		NOT EMPLOYED		ROW	
				LAST WE		OYED LAS		TOTAL	
				I		I			
				1		2			
CHILDSEX									
1		I	6.14	I	6.60	I		6.41	
BOTH BOYS		I	3.36	I	2.94	I		3.10	
		-I		-I		-I			
BOTH GIRLS									
2		I	4.64	I	7.91	I		6.87	
		I	1.88	I	11.28	I		9.45	
		-I		-I		-I			
A GIRL AND A BOY									
3		I	6.43	I	6.13	I		6.24	
		I	4.00	I	2.94	I		3.34	
		-I		-I		-I			
COLUMN TOTAL									
			6.01		6.65			6.42	
			76		134			210	
			3.51		5.91			5.17	

Table 119

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * EDUCATION OF HUSBAND * * * * * EMPLOYMENT STATUS OF WIFE * * * * *
 * * * * * VARIABLE AVERAGED... PRDAY1 MARKET VALUE OF FOOD ON DAY 1 * * * * *
 * * * * *

		WEMPL				ROW	
MEAN I		I		I		TOTAL	
STD DEV I		I		NOT EMPL			
		I		OYED LAS			
		I		1 2			
HED		I	I	I	I		
LESS THAN HIGH S	10	I	5.21	I	5.03	I	5.15
		I	3.62	I	1.67	I	3.06
HIGH SCHOOL DIPL	12	I	6.30	I	7.48	I	7.01
		I	2.84	I	11.93	I	9.36
PARTIAL COLLEGE	14	I	5.27	I	6.38	I	6.05
		I	2.20	I	2.70	I	2.59
BACHELOR'S DEGREE	16	I	5.70	I	6.47	I	6.24
		I	4.38	I	2.95	I	3.41
GRADUATE DEGREE	18	I	7.18	I	6.74	I	6.94
		I	4.34	I	3.59	I	3.89
COLUMN TOTAL		I	6.01	I	6.65	I	6.42
			76		134		210
			3.51		5.91		5.17

Table 120

[illegible]

[illegible]

Table 122

CROSS--BREA K D O W N U F										AGE GROUP OF YOUNGER CHILD									
LOCATION OF RESIDENCE										BY ITEM1									
PRDAY2 MARKET VALUE OF FOOD ON DAY 2																			
VARIABLE AVERAGED...																			
ITEM1																			
MEAN I																			
STD DEV I																			
LESS THA																			
I N I YEAR																			
1 YEAR																			
2 I																			
3 I																			
6-11 RS																			
12-17 ARS																			
5 I																			
TOTAL																			
RURAL																			
URBAN																			
COLUMN TOTAL																			

Table 123

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD														ROW	
BY ITEM1														TOTAL	
MARKET VALUE OF FOOD ON DAY 2															
PRDAY2															
ITEM1															
MEAN I															
STD DEV I															
LESS THAN 1 YEAR															
1 YEAR															
2-5 YEAR															
6-11 YEA															
12-17 YE															
WEMPL															
EMPLOYED LAST WE															
NOT EMPLOYED LAS															
COLUMN TOTAL															
1	4.40	5.87	6.68	6.29	7.55									6.55	
2	1.77	2.10	6.04	3.96	7.07									5.41	
3	6.20	7.49	6.64	6.07	7.15									6.68	
4	2.39	2.32	2.24	2.13	2.22									2.31	
5	5.82	7.14	6.65	6.16	7.42									6.64	
6	4.2	4.2	4.2	4.2	4.2									210	
7	2.37	2.35	3.86	2.92	5.87									3.73	

* * * * * C R O S S---B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * * BY ITEM * * * * * AGE GROUP UP YOUNGER CHILD * * * * *
 * * * * * VARIABLE AVERAGED... * * * * * PRDAY2 * * * * * MARKET VALUE OF FOOD ON DAY 2 * * * * *
 * * * * *

Table 124

CHILDSEX	MEAN		STD DEV		ITEM1		LESS		1 YEAR		2-5 YEAR		0-11 YEA		12-17 YE		RUM
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
BOTH BOYS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6.42
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.55
BOTH GIRLS	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6.65
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3.81
A GIRL AND A BOY	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6.75
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4.26
COLUMN TOTAL	5.82	7.14	6.65	6.16	7.42	6.64	2.10	3.73									
	42	42	42	42	42	42	42	42									
	2.37	2.35	3.86	2.92	5.87												

Table 125

CROSS-BREACKDOWN BY ITEM1 AGE GROUP OF YOUNGER CHILD									
EDUCATION OF HUSBAND		PRDAY2		MARKET VALUE OF FOOD ON DAY 2		6-11 YEA		12-17 YE	
STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	RS	ARS	RS	ARS
ITEM1	ITEM1	ITEM1	ITEM1	ITEM1	ITEM1	ITEM1	ITEM1	ITEM1	ITEM1
MEAN I	MEAN I	MEAN I	MEAN I	MEAN I	MEAN I	MEAN I	MEAN I	MEAN I	MEAN I
ROW	ROW	ROW	ROW	ROW	ROW	ROW	ROW	ROW	ROW
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
10	0.0	4.47	3.81	3.01	5.46	4.95			
LESS THAN HIGH SCHOOL	0.0	0.0	0.0	0.0	2.77	2.43			
12	5.81	6.06	4.22	7.39	6.09	5.87			
HIGH SCHOOL DIPLOMA	2.73	2.32	1.61	4.51	2.15	3.08			
14	6.03	7.80	9.10	5.41	6.88	6.99			
PARTIAL COLLEGE	1.78	2.50	5.56	1.91	3.45	3.40			
16	7.11	6.97	6.75	6.59	6.99	6.87			
BACHELOR'S DEGREE	2.06	1.89	2.34	1.70	3.79	2.55			
18	4.75	7.61	6.45	5.25	11.02	7.10			
GRADUATE DEGREE	2.73	2.73	2.90	2.50	11.46	6.08			
COLUMN TOTAL	5.82	7.14	6.65	6.16	7.42	6.64			
	42	42	42	42	42	210			
	2.37	2.35	3.86	2.92	5.87	3.73			

Table 126

CROSS-BREAKDOWN BY ITEM1										AGE GROUP OF YOUNGER CHILD									
WED EDUCATION OF WIFE																			
VARIABLE AVERAGED... PRDAY2 MARKET VALUE OF FOOD ON DAY 2																			
ITEM1																			
MEAN I																			
STD DEV I																			
LESS THAN 1 YEAR																			
1 YEAR																			
2-5 YEAR																			
6-11 YEAR																			
12-17 YEAR																			
TOTAL																			
WED																			
LESS THAN HIGH SCHOOL																			
HIGH SCHOOL																			
PARTIAL COLLEGE																			
BACHELOR'S DEGREE																			
GRADUATE DEGREE																			
COLUMN TOTAL																			
10	5.73	3.08	4.66	4.58	5.21	4.79													
12	1.85	0.0	0.73	0.0	0.0	1.16													
14	6.17	6.74	5.82	6.65	4.87	5.98													
16	2.09	2.27	2.38	4.06	2.60	2.81													
18	5.84	7.29	7.56	5.19	9.68	6.91													
	2.46	2.37	6.04	1.92	10.41	5.25													
	6.39	7.40	7.02	8.06	9.17	7.61													
	2.18	2.50	3.29	1.14	3.60	2.79													
	2.09	7.41	8.92	5.72	7.07	6.30													
	2.09	1.22	1.22	2.00	2.59	2.82													
	5.82	7.14	6.65	6.16	7.42	6.64													
	42	42	42	42	42	210													
	2.37	2.35	3.86	2.92	5.87	3.73													

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * * BY ITEM * * * * * AGE GROUP OF YOUNGER CHILD
 * * * * * VARIABLE AVERAGED... PRDAY1 MARKET VALUE OF FOOD ON DAY 1 * * * * *
 * * * * *

		ITEM1					ROW	
MEAN I		1	2	3	4	5	TOTAL	
STD DEV I	LESS THA	1 YEAR	2-5	6-11	12-17	YE		
I	I N I YEAR	I	S	RS	ARS	I		
CHILDSEX	I	I	I	I	I	I		
BOTH BOYS	1	6.89	6.77	6.40	7.35	6.38	6.68	
	I	10.08	3.70	1.30	1.77	4.03	2.84	
BOTH GIRLS	2	5.43	5.55	12.62	6.45	4.97	9.08	
	I	0.0	3.07	20.37	1.66	1.98	14.33	
A GIRL AND A BOY	3	5.77	7.31	4.50	6.19	5.04	5.54	
	I	4.20	3.03	3.26	2.97	3.28	3.17	
COLUMN TOTAL	-1	6.09	6.55	7.27	6.40	5.55	6.50	
	3	3.67	9	68	87	44	211	
			2.92	11.70	2.68	3.45	7.06	

Table 14

** ** ** ** ** ** ** ** ** ** ** ** ** C R O S S---B R E A K D O W N O F ** ** ** A G E G R O U P O F Y O U N G E R C H I L D
 ** ** ** H E D E D U C A T I O N O F H U S B A N D B Y I T E M 1
 ** ** ** V A R I A B L E A V E R A G E D . . . P R D A Y 1 M A R K E T V A L U E O F F O O D O N D A Y 1

		I T E M 1										R O W	
		M E A N I		1 Y E A R		2-5 Y E A R		6-11 Y E A		12-17 Y E		T O T A L	
		S T D D E V I		I N 1 Y E A R		I I		I I		I I			
		I I		I I		I I		I I		I I			
H E D		---		---		---		---		---			
10 I		0.0 I		5.10 I		2.91 I		8.85 I		5.30 I		6.04	
L E S S T H A N H I G H S I		0.0 I		0.0 I		0.0 I		0.00 I		3.58 I		3.39	
---		---		---		---		---		---			
12 I		5.46 I		4.79 I		14.94 I		5.23 I		6.15 I		8.94	
H I G H S C H O O L D I P L I		0.0 I		4.51 I		22.80 I		2.79 I		0.64 I		14.59	
---		---		---		---		---		---			
14 I		5.41 I		6.36 I		5.64 I		6.58 I		5.56 I		6.08	
P A R T I A L C O L L E G E I		4.32 I		3.12 I		2.55 I		2.02 I		3.03 I		2.39	
---		---		---		---		---		---			
16 I		6.83 I		7.22 I		4.88 I		6.34 I		5.21 I		5.59	
B A C H E L O R ' S D E G R E E I		0.0 I		3.38 I		2.91 I		3.53 I		3.18 I		3.23	
---		---		---		---		---		---			
18 I		7.57 I		7.29 I		4.42 I		7.28 I		6.16 I		6.27	
G R A D U A T E D E G R E E I		0.0 I		4.57 I		4.35 I		1.01 I		5.21 I		3.66	
---		---		---		---		---		---			
C O L U M N T O T A L		6.09		6.55		7.27		6.40		5.55		6.50	
		3		9		68		87		44		211	
		3.67		2.92		11.70		2.68		3.45		7.06	

Table 15

* * * * * EDUCATION OF WIFE * * * * * C R O S S --- B R E A K D O W N O F * * * * * AGE GROUP OF YOUNGER CHILD
 * * * * * VARIABLE AVERAGED... PRDAY1 MARKET VALUE OF FOOD ON DAY 1 * * * * *
 * * * * *

ITEM1		BY ITEM1							ROW	
MEAN I		1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	TOTAL				
STU DEV I	LESS THA	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR					
I	I N 1 YEAR	I	I	I	I					
WED	1	2	3	4	5					
10	5.68	4.03	4.95	7.09	3.33					5.66
LESS THAN HIGH S	0.0	0.0	1.29	0.00	0.0					1.56
12	5.24	6.13	10.48	5.71	5.06					7.28
HIGH SCHOOL DIPL	4.69	4.00	17.49	2.06	3.02					10.82
14	7.54	6.24	5.09	6.94	5.95					6.24
PARTIAL COLLEGE	0.0	1.78	3.58	2.62	3.65					3.13
16	5.33	7.18	4.52	5.76	5.76					5.42
BACHELOR'S DEGREE	0.0	4.46	2.60	4.58	2.66					3.37
18	7.58	6.52	6.96	7.31	6.29					6.97
GRADUATE DEGREE	0.0	0.0	0.29	1.11	6.60					3.24
COLUMN TOTAL	6.09	6.55	7.27	6.40	5.55					6.50
	3	9	68	87	44					211
	3.67	2.92	11.70	2.68	3.45					7.06

Table 16

FAMILY INCOME
CROSS--BREA K D O W N A G E G R O U P O F Y O U N G E R C H I L D
BY ITEM1

VARIABLE AVERAGED... PR DAY1 MARKET VALUE OF FOOD ON DAY 1

ITEM		MEAN	STD DEV	1 LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL
				1	2	3	RS	ARS	
FAMY				1	2	3	1	4	1
				1	1	1	1	1	5
				1	1	1	1	1	1
8		10.07	1	6.82	6.34	7.17	8.46	8.46	6.84
LESS THAN \$10,000		0.0	1	0.0	1.99	1.64	0.0	0.0	2.27
				1	1	1	1	1	1
9		5.24	1	7.94	6.65	4.47	12.12	12.12	8.27
\$10,000-\$11,999		0.0	1	0.0	0.09	0.0	1.01	1.01	3.65
				1	1	1	1	1	1
10		5.80	1	6.42	7.02	4.22	3.91	3.91	5.88
\$12,000-\$14,999		0.0	1	3.64	2.37	1.98	0.47	0.47	2.58
				1	1	1	1	1	1
11		5.28	1	5.80	11.68	6.97	3.84	3.84	8.61
\$15,000-\$19,999		0.0	1	3.39	20.71	2.29	1.97	1.97	14.01
				1	1	1	1	1	1
12		5.31	1	5.70	3.07	6.82	4.55	4.55	4.81
\$20,000-\$24,999		0.0	1	2.59	3.26	1.52	3.21	3.21	3.06
				1	1	1	1	1	1
13		6.43	1	9.46	5.17	6.76	6.96	6.96	6.65
\$25,000-\$49,999		0.0	1	0.0	3.09	2.96	3.62	3.62	3.17
				1	1	1	1	1	1
14		4.49	1	8.80	7.24	8.12	4.10	4.10	6.67
\$50,000 OR MORE		0.0	1	0.0	0.0	0.48	1.55	1.55	2.16
				1	1	1	1	1	1
16		5.48	1	7.35	5.45	3.41	3.43	3.43	4.30
NOT GIVEN		0.0	1	0.0	2.50	2.80	2.25	2.25	2.69
				1	1	1	1	1	1
COLUMN TOTAL		6.09		6.55	7.27	6.40	5.55	5.55	6.50
		3		9	68	87	44	44	211
		3.67		2.92	11.70	2.68	3.45	3.45	7.06

Table 17

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * * BY WEMPL * * * * * EMPLOYMENT STATUS OF WIFE * * * * *
 * * * * * VARIABLE AVERAGED... PRDAY1 MARKET VALUE OF FOOD ON DAY 1 * * * * *
 * * * * *

CHILDSEX	WEMPL		NOT EMPL OYED LAS	ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE 1 I		
BOTH BOYS	1	6.17 I	7.23 I	6.68
		2.86 I	2.79 I	2.84
BOTH GIRLS	2	5.20 I	10.99 I	9.08
		1.99 I	17.23 I	14.33
A GIRL AND A BOY	3	5.70 I	5.45 I	5.54
		3.55 I	2.97 I	3.17
COLUMN TOTAL		5.75	6.97	6.50
		81	130	211
		3.12	8.63	7.06

Table19

C R O S S ---B R E A K D O W N O F										E M P L O Y M E N T S T A T U S O F W I F E									
E D U C A T I O N O F H U S B A N D										B Y W E M P L									
V A R I A B L E A V E R A G E D . . .										M A R K E T V A L U E O F F O O D O N D A Y 1									
P R D A Y 1																			
W E M P L																			
M E A N 1		E M P L O Y E D		N O T E M P L		R O W													
S T D D E V I		L A S T W E		O Y E D L A S		T O T A L													
H E D		1		2															
10		6.15		5.01		6.04													
L E S S T H A N H I G H S		3.53		3.83		3.39													
12		6.01		12.24		8.94													
H I G H S C H O O L D I P L		2.43		20.91		14.59													
14		5.53		6.32		6.08													
P A R T I A L C O L L E G E		2.06		2.51		2.39													
16		4.79		5.88		5.59													
B A C H E L O R ' S D E G R E E		4.17		2.80		3.23													
18		6.64		6.03		6.27													
G R A D U A T E D E G R E E		3.10		4.03		3.66													
C O L U M N T O T A L		5.75		6.97		6.50													
		81		130		211													
		3.12		8.63		7.06													

43

Table 20

WED	EDUCATION OF WIFE	CROSS---BREA K D O W N	BY WEMPL	EMPLOYMENT STATUS OF WIFE
VARIABLE AVERAGED...	PRDAY1	MARKET VALUE OF FOOD ON DAY 1		

	MEAN I	STD DEV I	WEMPL I	EMPLOYED LAST WE I	NOT EMPLOYED LAS I	ROW TOTAL
WED	---	---	---	1	2	
	10			6.03	4.26	5.66
LESS THAN HIGH S				1.49	1.27	1.56
	---	---	---	---	---	
12				4.84	8.88	7.28
HIGH SCHOOL DIPL				2.96	13.53	10.82
	---	---	---	---	---	
14				6.66	6.05	6.24
PARTIAL COLLEGE				3.08	3.17	3.13
	---	---	---	---	---	
16				5.97	5.22	5.42
BACHELOR'S DEGREE				4.33	2.99	3.37
	---	---	---	---	---	
18				6.26	8.59	6.97
GRADUATE DEGREE				2.64	4.16	3.24
	---	---	---	---	---	
COLUMN TOTAL				5.75	6.97	6.50
				81	130	211
				3.12	8.63	7.06

Table 21

46

Table 23

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * *
 *
 * * * * * VARIABLE AVERAGED... PRDAY2 MARKET VALUE OF FOOD ON DAY 2 * * * * *
 *

		ITEM1										ROW	
MEAN I													
CHILDSEX	STD DEV I	LESS THA		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE			
		I N I YEAR		I		S		RS		ARS		TOTAL	
		1	1	1	2	1	3	1	4	1	5		
BOTH BOYS	1	6.03	I	6.18	I	7.41	I	5.02	I	7.13	I	6.56	
	I	4.24	I	2.24	I	2.58	I	1.90	I	3.10	I	2.71	
BOTH GIRLS	-1	-	I	-	I	-	I	-	I	-	I		
	2	5.02	I	6.91	I	6.69	I	6.62	I	5.82	I	6.53	
A GIRL AND A BOY	I	0.0	I	2.14	I	4.75	I	2.64	I	2.86	I	3.72	
	-1	-	I	-	I	-	I	-	I	-	I		
COLUMN TOTAL	3	5.64	I	7.91	I	5.72	I	5.92	I	6.90	I	6.07	
	I	4.54	I	3.01	I	2.36	I	2.60	I	6.21	I	3.42	
	-1	-	I	-	I	-	I	-	I	-	I		
		5.67		7.03		6.33		5.89		6.83		6.27	
		3		9		68		87		44		211	
		2.80		2.29		3.30		2.53		4.72		3.33	

Table 25

HED	CROSS--BREA K D W N	O F	A G E	G R O U P	U F	Y O U N G E R	C H I L D
EDUCATION OF HUSBAND	BY ITEM1						
PRDAY2	MARKET VALUE OF FOOD ON DAY 2						
VARIA BLE AVERAGED... .							

ITEM	MEAN	STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEARS	6-11 YEARS	12-17 YEARS	ROW TOTAL
LESS THAN HIGH SCHOOL	10	0.0	0.0	4.47	3.81	3.01	5.61	4.80
HIGH SCHOOL DIPLOMA	12	5.75	0.0	6.10	3.96	6.89	5.40	5.61
PARTIAL COLLEGE	14	5.96	3.52	3.03	4.52	1.69	3.66	3.47
BACHELOR'S DEGREE	16	6.78	0.0	6.77	6.64	6.35	6.24	6.45
GRADUATE DEGREE	18	4.67	0.0	7.57	5.60	5.58	9.18	6.55
COLUMN TOTAL	5.67	7.03	6.33	5.89	6.83	6.27	211	3.33

Table 26

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * EDUCATION OF WIFE * * * * *
 * * * * * VARIABLE AVERAGED... PKDAY2 MARKET VALUE OF FOOD ON DAY 2 * * * * *
 * * * * *

ITEM1	MEAN 1		STD DEV 1		LESS THAN 1 YEAR		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		ROW TOTAL
	1	LESS THA	1	N 1 YEAR	1	2	1	3	1	RS	4	1	5	1	
WED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LESS THAN HIGH S	10	1	5.73	1	3.08	1	4.83	1	4.58	1	5.21	1	4.74	1	4.74
	1	1	0.0	1	0.0	1	0.60	1	0.0	1	0.0	1	0.0	1	0.55
HIGH SCHOOL DIPL	12	1	6.14	1	6.60	1	5.80	1	6.05	1	4.76	1	5.09	1	5.09
	1	1	5.37	1	3.21	1	2.25	1	3.44	1	2.69	1	2.86	1	2.86
PARTIAL COLLEGE	14	1	5.68	1	7.16	1	6.60	1	5.07	1	8.20	1	6.09	1	6.09
	1	1	0.0	1	2.71	1	4.83	1	1.64	1	8.07	1	4.29	1	4.29
BACHELOR'S DEGRE	16	1	6.07	1	7.18	1	6.96	1	7.93	1	8.65	1	7.76	1	7.76
	1	1	0.0	1	2.77	1	3.30	1	0.92	1	3.45	1	2.82	1	2.82
GRADUATE DEGREE	18	1	2.09	1	7.41	1	8.92	1	5.81	1	7.23	1	6.61	1	6.61
	1	1	0.0	1	0.0	1	1.29	1	1.97	1	2.49	1	2.27	1	2.27
COLUMN TOTAL			5.67		7.03		6.33		5.89		6.84		6.27		6.27
			3		9		68		87		44		211		211
			2.80		2.29		3.30		2.53		4.72		3.33		3.33

[illegible]

ITEM1		MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL
				1	2	5	RS	ARS	
FAMY				1	2	3	4	5	
				1	1	1	1	1	
				1	1	1	1	1	
8				8.08	5.11	5.36	14.39	8.14	7.79
LESS THAN \$10,000				0.0	0.0	0.89	6.93	0.0	4.88
				1	1	1	1	1	
9				6.01	6.69	8.56	3.96	7.33	6.92
\$10,000-\$11,999				0.0	0.0	0.15	0.0	0.99	2.06
				1	1	1	1	1	
10				6.16	7.05	7.45	6.04	3.86	6.68
\$12,000-\$14,999				0.0	2.34	5.54	1.14	1.08	4.08
				1	1	1	1	1	
11				4.18	7.10	6.32	5.16	4.61	5.67
\$15,000-\$19,999				0.0	3.00	2.72	1.42	1.62	2.21
				1	1	1	1	1	
12				5.52	7.22	6.86	4.38	9.64	6.79
\$20,000-\$24,999				0.0	3.71	3.27	1.80	8.87	5.20
				1	1	1	1	1	
13				3.11	8.61	5.14	6.09	6.59	6.12
\$25,000-\$49,999				0.0	0.0	1.93	2.27	3.48	2.63
				1	1	1	1	1	
14				4.67	4.18	7.66	6.74	6.58	6.70
\$50,000 OR MORE				0.0	0.0	0.0	2.08	4.14	2.67
				1	1	1	1	1	
16				5.93	6.09	4.70	5.76	6.59	5.62
NOT GIVEN				0.0	0.0	1.16	2.10	1.72	1.76
				1	1	1	1	1	
COLUMN TOTAL				5.67	7.03	6.33	5.89	6.84	6.27
				3	9	68	87	44	211
				2.80	2.29	3.30	2.53	4.72	3.33

Table 28

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 CHILDSEX SEX OF CHILDREN
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 VARIABLE AVERAGED... PRDAY2 MARKET VALUE OF FOOD ON DAY 2
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

CHILDSEX	WEMPL				ROW TOTAL
	MEAN I	STD DEV I	EMPLOYED LAST WE	NOT EMPLOYED LAS	
BOTH BOYS	1	1	5.52	7.67	6.56
	1	1	2.95	1.92	2.71
BOTH GIRLS	2	1	6.93	6.33	6.53
	1	1	5.67	2.35	3.72
A GIRL AND A BOY	3	1	5.87	6.18	6.07
	1	1	4.92	2.26	3.42
COLUMN TOTAL	-1	-1	5.95	6.47	6.27
			81	130	211
			4.54	2.28	3.33

Table 30

	MEAN I	STD DEV I	EMPLOYED LAST WE	NOT EMPLOYED LAS	ROW TOTAL
	I	I	I	I	
WED	---	---	---	---	
	10	4.68	4.98	4.74	
LESS THAN HIGH S	0.46	1.14	0.55		
HIGH SCHOOL DIPL	4.77	6.29	5.69		
PARTIAL COLLEGE	7.31	1.93	4.29		
BACHELOR'S DEGREE	7.53	7.77	7.70		
GRADUATE DEGREE	3.61	2.54	2.82		
COLUMN TOTAL	5.95	6.47	6.27		
	81	130	211		
	4.54	2.28	3.33		

C R O S S --- B R E A K D O W N O F										E M P L O Y M E N T S T A T U S O F W I F E									
F A M Y F A M I L Y I N C O M E										B Y W E M P L									
V A R I A B L E A V E R A G E D . . .										M A R K E T V A L U E O F F O O D O N D A Y 2									
P R D A Y 2										W E M P L									
M E A N I										E M P L O Y E D L A S T W E									
S T D D E V I										N O T E M P L O Y E D L A S T W E									
F A M Y										R O W T O T A L									
L E S S T H A N \$ 10,000										7.79									
\$ 10,000--\$11,999										6.92									
\$ 12,000--\$14,999										6.68									
\$ 15,000--\$19,999										5.67									
\$ 20,000--\$24,999										6.79									
\$ 25,000--\$49,999										6.12									
\$ 50,000 OR MORE										6.70									
N O T G I V E N										5.62									
C O L U M N T O T A L										6.27									
										211									
										3.33									

Table 33

one (Table 45) the average value is \$7.81(s.d.=3.98); on day two (Table 56) it is \$8.59 (s.d.=4.51)/ The estimates for day one and day two exhibited the same trends with the exception of the response to family income. The average daily replacement cost value of food declines as family income increases on day one, but there is no trend on day two. For this reason, the trends are discussed for the average of the two days (Tables 34-44).

The replacement cost estimates, like the market cost estimates, are relatively unresponsive to changes in family characteristics. No trends are discernable with changes in age of younger child, location of residence, sex of children, and wife's education. Families with two girls had the highest average value, but that was not the case when age of younger child (Table 36) or wife's employment status (Table 41) were controlled.

Replacement cost estimates appear to respond to changes in wife's employment status, husband's education, and family income. Consistently, families which have wives who are not employed have higher average daily replacement cost values of home-prepared food than families with employed wives (Tables 40-44). As husband's education increases daily replacement cost generally, although not consistently, increases (Tables 37, 42). Replacement cost of food is lowest for families in which the husband has a high school diploma or less education and it is highest for families in which the husband has education beyond a bachelor's degree. If wife's employment status is controlled there is no trend. As family annual income increases the daily replacement cost of food declines (Tables 39, 44). The relationship holds unless the younger child is two to five years old.

For the variables examined, replacement cost estimates are unresponsive more often than responsive. When replacement cost estimates differ by family characteristics the differences do not constitute a consistent trend. The

only consistent trend noted is that for wife's employment status.

The lack of responsiveness to changes in family characteristics and inconsistent responses are similar to the pattern observed for market cost estimates. For both estimates the only consistent trend noted is for wife's employment status. Both estimates are higher for families with nonemployed wives. The average replacement cost estimates are greater than the average market cost estimates. Comparing the estimates table by table the relative size of the two estimates is generally consistent. The estimates are within one standard deviation of each other. No tests for significant difference were performed because the estimates are for the same sample and the standard tests are designed for use with different samples. The relatively small difference between the two estimates makes any conclusion about utility directly produced by engaging in food preparation and service tenuous at best. It must be remembered, however, that the replacement cost estimates are biased downward in this study because 1979 wages were used (Walker and Gauger, 1980).

Our discussion of the opportunity cost estimates (Tables 67-99) must be prefaced by the reminder that these estimates assumed a zero wage rate for nonemployed persons who reported no wages. For family decision making the assumption is realistic. Many of these persons are precluded from seeking employment for personal or social reasons such as mandatory retirement and the belief that mothers should stay home with young children. Most of the nonemployed adults are wives and wives provide the most labor for food preparation and dishwashing; therefore, the impact of this assumption is not negligible. Estimates are reported for families with nonemployed wives because the estimates include the value of all family members' labor not just wives'. Also, some wives who were not employed last week did have regular jobs of a seasonal nature such as teaching and therefore reported a wage rate. The wage rate of any person reporting one was used in this

[illegible]

59

WEMPL	CROSS--B	REAKDOWN	OF	AGE	GROUP	OF	YOUNGER	CHILD
EMPLOYMENT STATUS	OF WIFE	BY ITEM1						
VARIABLE AVERAGED..	RP COST	AVERAGE REPLACEMENT COST	OF FOOD					

ITEM1	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEARS	6-11 YEARS	12-17 YEARS	ROW TOTAL
WEMPL	---	---	1 I	2 I	3 I	4 I	5 I	
EMPLOYED LAST WE	1 I	6.77 I	6.57 I	5.65 I	7.67 I	8.23 I		7.40
	---	---	0.0 I	3.84 I	1.77 I	2.27 I	4.25 I	3.19
NOT EMPLOYED LAS	2 I	8.72 I	8.18 I	9.07 I	8.18 I	9.68 I		8.70
	---	---	5.29 I	2.39 I	3.31 I	3.42 I	3.88 I	3.41
COLUMN TOTAL	8.25	7.87	8.16	8.00	8.72			8.20
	3	9	68	87	44			211
	4.55	2.49	3.33	3.06	4.14			3.38

Table 35

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * * BY ITEM1 AGE GROUP OF YOUNGER CHILD * * * * *
 * * * * * VARIABLE AVERAGED... RPCOST AVERAGE REPLACEMENT COST OF FOOD * * * * *
 * * * * *

ITEM1									
MEAN I	STD DEV I	1 LESS THAN 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEAR RS	12-17 YEAR ARS	ROW TOTAL		
		1	2	1	3	1	4	1	5
CHILDSEX		1	1	1	1	1	1	1	1
	1	7.86	7.16	1	8.67	1	7.60	1	8.07
BOTH BOYS	1	6.99	1.96	1	4.85	1	1.23	1	2.32
	1	1	1	1	1	1	1	1	1
BOTH GIRLS	2	7.56	7.11	1	7.99	1	10.20	1	9.20
	1	0.0	3.28	1	2.89	1	1.96	1	5.84
	1	1	1	1	1	1	1	1	1
A GIRL AND A BOY	3	8.76	9.25	1	8.07	1	7.64	1	9.11
	1	7.60	2.40	1	2.97	1	3.32	1	4.86
	1	1	1	1	1	1	1	1	1
COLUMN TOTAL		8.25	7.87		8.16		8.00		8.72
	3		9		68		87		44
	4.55		2.49		3.33		3.06		4.14

Table 36

HED	EDUCATION OF HUSBAND	CROSS—BREA K D W N	BY ITEM1	AGE GROUP OF	YOUNGER CHILD
VARIABLE AVERAGED...	RPCOST	AVERAGE REPLACEMENT COST OF FOOD			

ITEM1	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL
			1 YEAR	2 YEAR	5 YEAR	RS	ARS	
HED			1	2	3	4	5	
			1	1	1	1	1	
	10		0.0	9.29	5.46	8.32	8.09	7.98
LESS THAN HIGH SCHOOL			0.0	0.0	0.0	0.00	2.53	2.14
			1	1	1	1	1	
	12		8.78	6.83	5.81	8.22	8.78	7.33
HIGH SCHOOL DIPLOMA			0.0	3.54	1.73	4.47	1.26	3.50
			1	1	1	1	1	
	14		9.20	8.79	7.85	8.32	9.03	8.33
PARTIAL COLLEGE			11.56	3.14	2.25	2.57	4.66	2.96
			1	1	1	1	1	
	16		6.86	7.92	9.70	7.59	7.15	8.28
BACHELOR'S DEGREE			0.0	1.86	3.74	3.05	3.91	3.59
			1	1	1	1	1	
	18		6.74	7.08	8.51	7.82	11.90	8.94
GRADUATE DEGREE			0.0	4.87	3.74	1.67	4.91	3.68
			1	1	1	1	1	
COLUMN TOTAL			8.25	7.87	8.16	8.00	8.72	8.20
			3	9	68	87	44	211
			4.55	2.49	3.33	3.06	4.14	3.38

Table 37

[illegible]

ITEM1							
MEAN I	STD DEV I	LESS THA I N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEAR RS	12-17 YE ARS	ROW TOTAL
MEAN	10	10.52	6.27	6.97	4.45	7.31	6.06
LESS THAN HIGH S	1	0.0	0.0	0.97	0.0	0.0	1.63
-	-	-	-	-	-	-	-
12	1	8.67	8.28	7.82	9.06	6.59	8.04
HIGH SCHOOL DIPL	1	6.57	1.76	3.06	3.08	2.86	3.10
-	-	-	-	-	-	-	-
14	1	8.97	7.90	8.00	8.07	8.70	8.15
PARTIAL COLLEGE	1	0.0	2.99	2.20	3.11	3.15	2.88
-	-	-	-	-	-	-	-
16	1	7.63	7.86	9.87	7.09	10.30	9.01
BACHELOR'S DEGREE	1	0.0	3.42	4.70	2.71	4.27	4.08
-	-	-	-	-	-	-	-
18	1	4.73	7.32	4.78	6.83	12.66	8.04
GRADUATE DEGREE	1	0.0	0.0	2.13	2.42	6.08	4.45
-	-	-	-	-	-	-	-
COLUMN TOTAL		8.25	7.87	8.16	8.00	8.72	8.20
		3	9	68	87	44	211
		4.55	2.49	3.33	3.06	4.14	3.38

Table 38

64

[illegible]

C R O S S---B R E A K D O W N O F									
LOCATION OF RESIDENCE					E M P L O Y M E N T S T A T U S O F W I F E				
AREA	MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	WEMPL	BY WEMPL	AVERAGE REPLACEMENT COST OF FOOD	STATUS OF WIFE	WIFE
VARIABLE AVERAGED...	RPCOST		LAST WE	OYED LAS					
AREA	WEMPL								
	1	2	1	2					
RURAL	1	1	6.87	9.04	1		8.01		
	1	1	3.63	3.64	1		3.76		
URBAN	2	1	7.66	8.60	1		8.27		
	1	1	2.96	3.35	1		3.24		
COLUMN TOTAL	-1	-1	7.40	8.70	1		8.20		
			81	130			211		
			3.19	3.41			3.38		

Table 40

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * *
 * * * * * VARIABLE AVERAGED... * * * * *
 * * * * * RPCOST * * * * *
 * * * * * AVERAGE REPLACEMENT COST OF FOOD * * * * *
 * * * * * BY WEMPL * * * * *
 * * * * * EMPLOYMENT STATUS OF WIFE * * * * *

CHILDSEX	WEMPL		NOT EMPLOYED LAS	ROW TOTAL
	MEAN I	STD DEV I		
BOTH BOYS	1	1	1	1
	1	1	1	1
BOTH GIRLS	2	1	1	1
	1	1	1	1
A GIRL AND A BOY	3	1	1	1
	1	1	1	1
COLUMN TOTAL		7.40	8.70	8.20
		81	130	211
		3.19	3.41	3.38

Table 41

C R O S S --- B R E A K D O W N O F									
FAMILY INCOME					BY WEMPL				
FAMILY					EMPLOYMENT STATUS OF WIFE				
VARIABLE AVERAGED...					AVERAGE REPLACEMENT COST OF FOOD				
RPCOST									
WEMPL									
MEAN I		EMPLOYED		NOT EMPL		ROW			
STD DEV I	I	LAST WE	I	OYED LAS	I	TOTAL			
	I	1	I	2	I				
FAMY	---	---	---	---	---				
LESS THAN \$10,00	8	7.95	I	13.07	I	10.48			
		2.31	I	2.59	I	3.55			
\$10,000--\$11,999	9	8.32	I	9.57	I	8.97			
		4.17	I	2.44	I	3.04			
\$12,000--\$14,999	10	8.24	I	9.36	I	8.99			
		2.61	I	3.89	I	3.50			
\$15,000--\$19,999	11	6.60	I	8.11	I	7.56			
		3.30	I	2.03	I	2.63			
\$20,000--\$24,999	12	6.88	I	9.31	I	8.00			
		2.92	I	4.23	I	3.73			
\$25,000--\$49,999	13	8.09	I	8.46	I	8.35			
		4.33	I	2.93	I	3.39			
\$50,000 OR MORE	14	8.02	I	4.79	I	7.35			
		1.18	I	1.68	I	1.82			
NOT GIVEN	16	4.96	I	8.29	I	7.76			
		1.32	I	4.58	I	4.38			
COLUMN TOTAL	---	---	---	---	---	8.20			
		7.40		8.70		211			
		81		130		3.38			
		3.19		3.41					

Table 44

[illegible]

Table 45

[illegible]

Table 46

***** C R O S S --- B R E A K D O W N O F ***** AGE GROUP OF YOUNGER CHILD
 ***** CHILDSEX SEX OF CHILDREN ***** BY ITEM1 *****
 ***** VARIABLE AVERAGED... R P C O S T 1 REPLACEMENT COST OF FOOD FOR DAY 1 *****

CHILDSEX	MEAN I STD DEV I	ITEM1					ROW TOTAL	
		LESS THA N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEA RS	12-17 YE ARS		
BOTH BOYS	1	7.90 I 9.05 I	7.20 I 2.06 I	8.00 I 4.76 I	7.57 I 1.88 I	7.99 I 3.96 I	7.83 3.59	
BOTH GIRLS	2	7.60 I 0.0 I	6.58 I 4.33 I	6.66 I 2.93 I	10.11 I 3.47 I	8.17 I 4.31 I	7.91 3.61	
A GIRL AND A BOY	3	8.03 I 5.20 I	9.48 I 4.42 I	7.74 I 3.02 I	7.21 I 3.82 I	9.27 I 6.65 I	7.78 4.26	
COLUMN TOTAL		7.91 3 3.93	7.79 9 3.54	7.47 68 3.38	7.67 87 3.67	8.61 44 5.35	7.81 211 3.98	

Table 47

ITEM	MEAN	STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEARS	6-11 YEARS	12-17 YEARS	ROW TOTAL
			1 YEAR	2 YEARS	3 YEARS	4 YEARS	5 YEARS	
WED			1	2	3	4	5	
10	12.62	6.26	7.91	5.91	4.97			6.98
LESS THAN HIGH SCHOOL	0.0	0.0	0.93	0.0	0.0			1.60
12	7.59	7.15	7.10	7.67	6.99			7.30
HIGH SCHOOL DIPLOMA	6.24	2.84	3.35	3.08	3.66			3.25
14	8.64	7.62	7.36	8.85	9.08			8.40
PARTIAL COLLEGE	0.0	3.02	2.96	3.83	4.56			3.68
16	7.42	8.32	8.56	6.37	9.83			8.25
BACHELOR'S DEGREE	0.0	5.60	3.94	4.97	7.84			5.59
18	6.25	7.81	5.12	6.22	10.89			7.33
GRADUATE DEGREE	0.0	0.0	5.75	2.53	4.02			3.85
COLUMN TOTAL	7.91	7.79	7.47	7.67	8.61			7.81
	3	9	68	87	44			211
	3.93	3.54	3.38	3.67	5.35			3.98

74

 FAMY

 FAMILY INCOME

 VARIABLE AVERAGED...

 C R O S S ---B R E A K D O W N

 BY ITEM1

 AGE GROUP OF YOUNGER CHILD

 R P C O S T 1

 REPLACEMENT COST OF FOOD FOR DAY 1

FAMY	STD DEV	ITEM1		1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ROW
		MEAN I	LESS THA					
		I	N 1 YEAR	I	S	RS	ARS	TOTAL
		I	I	2	3	4	5	
		I	I	I	I	I	I	
8		I	10.23	I	9.74	I	12.26	10.28
LESS THAN \$10,00		I	0.0	I	2.41	I	0.0	2.43
		I	I	I	I	I	I	
9		I	6.79	I	8.62	I	13.89	9.81
\$10,000-\$11,999		I	0.0	I	0.11	I	1.22	3.88
		I	I	I	I	I	I	
10		I	8.21	I	7.96	I	8.66	7.85
\$12,000-\$14,999		I	0.0	I	2.44	I	2.95	2.51
		I	I	I	I	I	I	
11		I	9.99	I	6.17	I	9.52	7.38
\$15,000-\$19,999		I	0.0	I	3.25	I	4.09	3.34
		I	I	I	I	I	I	
12		I	7.09	I	6.39	I	5.21	6.74
\$20,000-\$24,999		I	0.0	I	4.79	I	2.97	3.72
		I	I	I	I	I	I	
13		I	7.08	I	7.85	I	10.69	8.94
\$25,000-\$49,999		I	0.0	I	2.37	I	6.57	4.89
		I	I	I	I	I	I	
14		I	3.69	I	10.87	I	4.70	6.77
\$50,000 OR MORE		I	0.0	I	0.0	I	2.14	2.83
		I	I	I	I	I	I	
16		I	8.33	I	9.22	I	6.84	6.16
NOT GIVEN		I	0.0	I	3.08	I	4.69	4.23
		I	I	I	I	I	I	
COLUMN TOTAL		7.91	7.79	7.47	7.67	8.61		7.81
		3	9	68	87	44		211
		3.93	3.54	3.38	3.67	5.35		3.98

Table 50

CROSS---BREAKDOWN OF									
EMPLOYMENT STATUS OF WIFE									
BY WEMPL									
REPLACEMENT COST OF FOOD FOR DAY 1									
RPCOST1									
LOCATION OF RESIDENCE									
AREA									
VARIABLE AVERAGED...									
WEMPL									
MEAN I									
STD DEV I									
EMPLOYED									
NOT EMPLOYED									
LAST WE									
OYED LAS									
TOTAL									
AREA									
RURAL									
URBAN									
COLUMN TOTAL									
1	6.88	1	8.43	1	7.69				
1	3.59	1	3.37	1	3.53				
2	7.35	1	8.13	1	7.86				
1	3.94	1	4.23	1	4.14				
7.20			8.20		7.81				
81			130		211				
3.81			4.05		3.98				

Table 51

HED	EDUCATION OF HUSBAND	CROSS--BREA K D O W N	BY WEMPL	EMPLOYMENT STATUS OF WIFE
VARIABLE AVERAGED...	RPCOST1 REPLACEMENT COST OF FOOD FOR DAY 1			

MEAN I	STD DEV I	WEMPL I	EMPLOYED I	NOT EMPLOYED I	ROW TOTAL
10	1	7.77	9.64	7.96	7.96
12	1	7.17	6.50	6.86	6.86
14	1	6.55	8.60	8.13	8.13
16	1	5.96	8.44	7.77	7.77
18	1	9.31	8.02	8.53	8.53
COLUMN TOTAL		7.20	8.20	7.81	7.81
		81	130	211	211
		3.81	4.05	3.98	3.98

WED	EDUCATION OF WIFE	CROSS---BREAKDOWN BY WEMPL	EMPLOYMENT STATUS OF WIFE
VARIABLE AVERAGED...	RPCOST1	REPLACEMENT COST OF FOOD FOR DAY 1	

MEAN I		EMPLOYED		NOT EMPLOYED		ROW
STD DEV	I	LAST WE	OYED	LAS	TOTAL	
10	1	6.96	1	7.07	1	6.98
LESS THAN HIGH S	1	1.32	1	3.68	1	1.60
12	1	6.29	1	7.96	1	7.30
HIGH SCHOOL DIPL	1	2.97	1	3.29	1	3.25
14	1	7.96	1	8.59	1	8.40
PARTIAL COLLEGE	1	4.09	1	3.52	1	3.68
16	1	8.38	1	8.20	1	8.25
BACHELOR'S DEGREE	1	5.96	1	5.54	1	5.59
18	1	7.28	1	7.46	1	7.33
GRADUATE DEGREE	1	3.53	1	4.88	1	3.85
COLUMN TOTAL		7.20		8.20		7.81
		81		130		211
		3.81		4.05		3.98

[illegible]

Table 5.

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * E M P L O Y M E N T S T A T U S O F W I F E * * * * *
 * * * * * R P C O S T 2 R E P L A C E M E N T C O S T O F F O O D F O R D A Y 2 * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . * * * * *
 * * * * *

ITEM1

MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEARS	6-11 YEARS	12-17 YEARS	ROW TOTAL
WEMPL	1	1	2	3	4	5	
EMPLOYED LAST WE	1	6.55	5.84	5.88	7.74	8.64	7.60
	1	0.0	4.30	2.42	3.66	6.82	4.92
NOT EMPLOYED LAST	2	9.23	8.45	9.93	8.65	9.19	9.20
	1	8.12	3.04	4.22	4.25	3.20	4.14
COLUMN TOTAL	-1	8.58	7.95	8.86	8.32	8.82	8.59
		3	9	68	87	44	211
		6.88	3.16	4.21	4.05	5.83	4.51

Table 57

* * * * * C R O S S --- B R E A K D O W N O F * * * * * A G E G R O U P O F Y O U N G E R C H I L D * * * * *
 * * * * * C H I L D S E X S E X O F C H I L D R E N * * * * * B Y I T E M 1 * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . R P C O S T 2 R E P L A C E M E N T C O S T O F F O O D F O R D A Y 2 * * * * *

CHILDSEX	ITEM1	MEAN I	STD DEV I	1 YEAR					2-5 YEAR		6-11 YEA		12-17 YE			ROW TOTAL
				LESS THA	1 YEAR	2	1	3	S	RS	4	1	ARS	5	1	
BOTH BOYS	1	I	I	7.81	I	7.11	I	9.35	I	7.63	I	8.16	I			8.27
	I	I	I	6.40	I	3.13	I	5.32	I	1.93	I	1.79	I			3.24
BOTH GIRLS	2	I	I	7.52	I	7.63	I	9.33	I	10.28	I	10.24	I			9.60
	I	I	I	0.0	I	3.77	I	3.75	I	4.25	I	10.82	I			5.29
A GIRL AND A BOY	3	I	I	9.49	I	9.02	I	8.40	I	8.07	I	8.95	I			8.36
	I	I	I	12.26	I	3.66	I	4.09	I	4.26	I	6.28	I			4.62
COLUMN TOTAL				8.58		7.95		8.86		8.32		8.82				8.59
				3		9		68		87		44				211
				6.88		3.16		4.21		4.05		5.83				4.51

Table 58

HED	EDUCATION OF HUSBAND	CROSS---BREA K D O W N	BY ITEM1	AGE GROUP OF YOUNGER CHILD
VARIABLE AVERAGED...	RPCOST2	REPLACEMENT COST OF FOOD FOR DAY 2		

ITEM	MEAN	STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL
			1	2	3	RS	ARS	
10	1	0.0	1	12.30	4.49	9.06	7.88	8.00
11	1	0.0	1	0.0	0.0	0.0	1.32	1.61
12	1	7.78	1	7.04	5.59	9.82	6.65	7.81
13	1	0.0	1	3.49	2.13	6.16	2.65	4.91
14	1	10.84	1	8.72	8.58	7.46	11.11	8.54
15	1	17.35	1	3.61	3.02	3.33	8.26	4.61
16	1	8.65	1	8.59	10.86	7.92	6.84	8.80
17	1	0.0	1	3.44	4.59	3.31	2.68	4.01
18	1	5.99	1	6.03	9.48	8.27	12.08	9.36
19	1	0.0	1	4.99	4.44	2.82	9.02	5.49
COLUMN TOTAL		8.58	7.95	8.86	8.32	8.82		8.59
		3	9	68	87	44		211
		6.88	3.16	4.21	4.05	5.83		4.51

Table 59

***** C R O S S ---B R E A K D O W N O F ***** AGE GROUP OF YOUNGER CHILD
 ***** EDUCATION OF WIFE ***** BY ITEM1 *****
 ***** VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 *****

ITEM1		C O L U M N										R O W	
MEAN I	STD DEV I	LESS THAN 1 YEAR		1 YEAR		2-5 YEAR		6-11 YEAR		12-17 YEAR		TOTAL	
		I	N I YEAR	I	2	I	S	I	RS	I	ARS	I	I
WED		I	I	I	I	I	I	I	I	I	I	I	I
10	I	8.41	I	6.28	I	6.04	I	2.98	I	9.65	I	5.14	I
LESS THAN HIGH S	I	0.0	I	0.0	I	1.01	I	0.0	I	0.0	I	2.19	I
		I	I	I	I	I	I	I	I	I	I	I	I
12	I	9.76	I	9.41	I	8.55	I	10.45	I	6.19	I	8.79	I
HIGH SCHOOL DIPL	I	12.15	I	3.34	I	3.63	I	4.20	I	2.48	I	3.95	I
		I	I	I	I	I	I	I	I	I	I	I	I
14	I	9.31	I	8.17	I	8.64	I	7.29	I	8.31	I	7.90	I
PARTIAL COLLEGE	I	0.0	I	3.73	I	2.55	I	4.02	I	4.14	I	3.75	I
		I	I	I	I	I	I	I	I	I	I	I	I
16	I	7.84	I	7.41	I	11.17	I	7.81	I	10.77	I	9.77	I
BACHELOR'S DEGREE	I	0.0	I	3.84	I	6.18	I	1.11	I	5.69	I	4.99	I
		I	I	I	I	I	I	I	I	I	I	I	I
18	I	3.22	I	6.84	I	4.43	I	7.44	I	14.43	I	8.74	I
GRADUATE DEGREE	I	0.0	I	0.0	I	2.21	I	3.76	I	12.04	I	7.22	I
		I	I	I	I	I	I	I	I	I	I	I	I
COLUMN TOTAL		8.58		7.95		8.86		8.32		8.82		8.59	
		3		9		68		87		44		211	
		6.68		3.16		4.21		4.05		5.83		4.51	

84

Table 61

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** CHILDSEX SEX OF CHILDREN ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

		WEMPL				ROW	
		MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I		
		I	I	LAST WE	OYED LAS		
		I	I	1	2		
CHILDSEX	---	---	---	---	---	TOTAL	
BOTH BOYS	1	1	7.54	1	9.06	1	8.28
	1	1	1.74	1	4.21	1	3.24
	-1	-1	-1	-1	-1	-1	
BOTH GIRLS	2	1	8.60	1	10.10	1	9.60
	1	1	7.81	1	3.55	1	5.29
	-1	-1	-1	-1	-1	-1	
A GIRL AND A BOY	3	1	7.31	1	8.92	1	8.36
	1	1	5.03	1	4.31	1	4.62
	-1	-1	-1	-1	-1	-1	
COLUMN TOTAL			7.60		9.20		8.59
			81		130		211
			4.92		4.14		4.51

Table 63

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 HED EDUCATION OF HUSBAND CROSS---BREAKDOWN OF BY WEMPL EMPLOYMENT STATUS OF WIFE
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

WEMPL				ROW	
MEAN I	STD DEV I	EMPLOYED LAST WE	NOT EMPLOYED LAS	TOTAL	
		1	2		
HED	---	---	---		
	10	7.85	9.35	8.00	
LESS THAN HIGH S	1	1.57	3.05	1.61	
	---	---	---		
	12	6.89	8.85	7.81	
HIGH SCHOOL DIPL	1	4.08	5.64	4.91	
	---	---	---		
	14	6.69	9.33	8.54	
PARTIAL COLLEGE	1	6.26	3.52	4.61	
	---	---	---		
	16	7.01	9.47	8.80	
BACHELOR'S DEGREE	1	2.30	4.32	4.01	
	---	---	---		
	18	10.49	8.63	9.36	
GRADUATE DEGREE	1	7.79	3.31	5.49	
	---	---	---		
COLUMN TOTAL		7.60	9.20	8.59	
		81	130	211	
		4.92	4.14	4.51	

Table 64

study. Another caveat is that the wages used in these estimates were unadjusted gross wages for 1977. The use of 1977 wages without any adjustment for inflation biases these estimates downward.

Opportunity cost estimates of food prepared and served at home are presented in Tables 67 through 99. The average daily opportunity cost is \$19.04 (s.d.=42.55). On day one the average is \$20.73 (s.d.=57.64); on day two it is \$17.34 (s.d.=40.47). The standard deviations are consistently larger than the means. The opportunity cost estimates are larger than the market cost and replacement cost estimates and more trends are detectable in the row and column totals. Only age of younger child, husband's education, wife's education, and family income are positively related to opportunity cost of home-prepared food. Opportunity cost estimates differ by location of residence and wife's employment status. However, some of the trends disappear when age of the younger child or wife's employment is controlled. Also some of the trends differ by day and only the two-day average is discussed.

Given the positive relationships between wage rates, education and income, it is not surprising to see relationships between the opportunity cost estimates and these family characteristics. As husband's education increases so do the opportunity cost estimates (Tables 70,75). When age of the younger child is controlled the trend is present only in the 12-17 age group (Tables 70,81,92). The trend is more pronounced for families with employed wives (Table 75). On day two the trend is reversed for families with a nonemployed wife (Table 97). Opportunity cost estimates also increase with wife's education (Tables 71,76). However, when age of the younger child is controlled no trend is evident (Tables 71,82,93). When wife's employment status is controlled the trend is present for families with both employed and nonemployed wives. Opportunity cost estimates also increase with family income (Tables 72,77). The exception to the trend is families earning less than \$10,000 per year. Opportunity cost

estimates were high for this group. When wife's employment status is controlled families earning \$50,000 or more annually and having nonemployed wives have very low estimated opportunity costs (Tables 88,99).

Age of the younger child (Tables 67-72) and wife's employment-status (Tables 73-77) are consistently related to opportunity costs of home-prepared food. Families in which the younger child is 12-17 years old consistently have the highest estimated costs. Families with a younger child five or less consistently have much higher estimates. The estimates are, on the average, two to four times greater for families with employed wives.

Sex of the children (Tables 69,74,80,85,91,96) is unrelated to opportunity cost of home-prepared food. On the average the estimates were highest for families with a boy and a girl and lowest for families with two girls. The conclusion that sex of children was not related to opportunity cost of home-prepared food was drawn because the relationship changed with the age of the younger child, the wife's employment status and observation day.

Even with a built-in downward bias, the opportunity cost estimates are consistently higher than either market cost or replacement cost estimates. Murphy (1980) has suggested that gross opportunity costs such as these overestimate by as much as 37 percent. Reducing our estimates 37 percent, they are still \$12.00 for the two-day average, \$13.06 for day one, and \$10.92 for day two. The opportunity cost estimates remain higher. They are approximately twice as large as the market cost estimates and one and a half times as large as the replacement cost estimates. These findings are consistent with Hawrylyshyn's (1977) contention that opportunity cost estimates, whether gross or net, do not net out the value of labor used to produce utility directly.

A comparison of market cost estimates with replacement cost and opportunity cost estimates leads to the conclusion that families either receive utility

CROSS--BREA K D W N O F									
LOCATION OF RESIDENCE			BY ITEM1			AGE GROUP OF YOUNGER CHILD			
AREA			TOPCOST			AVERAGE OPPORTUNITY COST OF FOOD			
VARIABLE AVERAGED...			ITEM1			TOTAL			
MEAN I	STD DEV I	LESS THA I	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ROW		
		N 1 YEAR	S	RS	ARS		TOTAL		
AREA	1	1	2	3	4	5			
RURAL	1	1	4.06	7.81	9.35	47.40	16.10		
	1	1	8.32	22.32	20.23	51.81	32.74		
URBAN	2	1	1.86	5.00	15.45	55.95	20.08		
	1	1	3.15	11.14	29.94	78.89	45.59		
COLUMN TOTAL	4.36	2.60	5.73	13.88	53.79	19.04	211		
	3	9	68	87	44	42.55			
	8.67	4.97	14.72	27.78	72.56				

ITEM1

Table 69

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * E M P L O Y M E N T S T A T U S O F W I F E * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . * * * * *
 * * * * * T O P C O S T A V E R A G E O P P O R T U N I T Y C O S T O F F O O D * * * * *
 * * * * * A G E G R O U P O F Y O U N G E R C H I L D * * * * *

ITEM1		BY ITEM1					ROW	
WEMPL	MEAN I	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	TOTAL		
STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	TOTAL		
1	1	2	3	4	5			
EMPLOYED LAST WE	10.58	8.49	16.91	25.34	48.54	31.44		
	0.0	11.99	25.46	39.18	58.79	46.20		
NOT EMPLOYED LAS	2.36	1.21	1.71	7.48	64.31	11.29		
	6.74	2.01	3.01	15.81	96.00	38.30		
COLUMN TOTAL	4.36	2.60	5.73	13.88	53.79	19.04		
	3	9	68	87	44	211		
	8.67	4.97	14.72	27.78	72.56	42.55		

Table 68

HED	EDUCATION OF HUSBAND	CROSS---BREAK DOWN BY ITEM1	AGE GROUP OF YOUNGER CHILD
VARIABLE AVERAGED...	TOPCOST	AVERAGE OPPORTUNITY COST OF FOOD	

ITEM1		MEAN I	STD DEV I	LESS THAN I	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL
		I	I	I	S	RS	ARS		
HED		1	1	1	2	3	4	5	
		1	1	1	1	1	1	1	
10		1	0.0	1	0.0	6.33	6.95	14.77	12.00
LESS THAN HIGH S		1	0.0	1	0.0	0.0	0.00	26.60	21.53
		1	1	1	1	1	1	1	
12		1	1.76	1	3.89	2.73	13.79	18.53	9.46
HIGH SCHOOL DIPL		1	0.0	1	15.77	3.05	21.72	25.37	17.48
		1	1	1	1	1	1	1	
14		1	5.85	1	2.44	7.24	11.60	46.83	15.33
PARTIAL COLLEGE		1	19.98	1	3.13	23.33	18.78	58.27	31.82
		1	1	1	1	1	1	1	
16		1	1.50	1	2.31	6.03	6.16	66.17	19.29
BACHELOR'S DEGREE		1	0.0	1	4.23	14.94	11.94	81.19	46.52
		1	1	1	1	1	1	1	
18		1	6.26	1	2.51	7.23	33.03	89.53	38.20
GRADUATE DEGREE		1	0.0	1	8.15	4.42	53.74	95.68	65.24
		1	1	1	1	1	1	1	
COLUMN TOTAL			4.36		2.60	5.73	13.88	53.79	19.04
			3		9	68	87	44	211
			8.67		4.97	14.72	27.78	72.56	42.55

Table 70

* * * * * C R O S S --- B R E A K D O W N O F * * * * * A G E G R O U P O F Y O U N G E R C H I L D * * * * *
 * * * * * F A M Y * * * * * F A M I L Y I N C O M E * * * * * B Y I T E M 1 * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . * * * * * T O P C O S T A V E R A G E O P P O R T U N I T Y C O S T O F F O O D * * * * *

ITEM1		MEAN 1										ROW TOTAL
STD DEV	FAM Y	LESS THAN 1 YEAR		1 YEAR		2-5 YEAR		6-11 YEAR		12-17 YEAR		
		I	I	I	I	S	I	RS	I	ARS	I	
8	17.34	0.37	1	3.45	1	4.31	1	39.00	1	87.69	1	17.34
LESS THAN \$10,000	31.89	0.0	1	0.0	1	4.13	1	53.52	1	0.0	1	31.89
9	1.93	0.21	1	0.0	1	0.14	1	3.77	1	3.00	1	1.93
\$10,000-\$11,999	2.06	0.0	1	0.0	1	0.21	1	0.00	1	2.24	1	2.06
10	6.34	6.75	1	2.23	1	9.29	1	2.95	1	5.67	1	6.34
\$12,000-\$14,999	18.42	0.0	1	5.13	1	26.09	1	2.38	1	2.22	1	18.42
11	5.92	3.21	1	1.72	1	1.93	1	6.92	1	17.90	1	5.92
\$15,000-\$19,999	12.72	0.0	1	3.23	1	2.36	1	14.28	1	22.59	1	12.72
12	19.91	9.10	1	2.28	1	13.08	1	2.92	1	55.65	1	19.91
\$20,000-\$24,999	38.24	0.0	1	4.47	1	20.38	1	3.17	1	61.09	1	38.24
13	25.75	6.11	1	0.32	1	4.13	1	13.47	1	63.16	1	25.75
\$25,000-\$49,999	54.06	0.0	1	0.0	1	4.63	1	18.14	1	91.27	1	54.06
14	52.86	0.69	1	4.17	1	9.17	1	77.15	1	25.73	1	52.86
\$50,000 OR MORE	53.82	0.0	1	0.0	1	0.0	1	59.08	1	28.82	1	53.82
16	30.45	0.54	1	9.82	1	1.17	1	0.0	1	117.12	1	30.45
NOT GIVEN	62.36	0.0	1	0.0	1	0.90	1	0.0	1	74.57	1	62.36
COLUMN TOTAL	19.04	4.36	1	2.60	1	5.73	1	13.88	1	53.79	1	19.04
	211	3	1	9	1	68	1	87	1	44	1	211
	42.55	8.67	1	4.97	1	14.72	1	27.78	1	72.56	1	42.55

Table 72

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 CHILDSEX SEX OF CHILDREN
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
 VARIABLE AVERAGED... TOPCOST AVERAGE OPPORTUNITY COST OF FOOD
 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

CHILDSEX	WEMPL		NOT EML OYED LAS	ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE		
BOTH BOYS	1	1	1	1
	1	35.22	1	1.50
	1	50.79	1	2.03
BOTH GIRLS	2	1	1	1
	1	26.38	1	5.80
	1	28.53	1	14.69
A GIRL AND A BOY	3	1	1	1
	1	30.97	1	16.07
	1	48.80	1	47.82
COLUMN TOTAL	-1	-1	-1	-1
	31.44	11.29	19.04	211
	81	130	211	42.55
	46.20	38.30	42.55	

Table 7A

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * E D U C A T I O N O F H U S B A N D * * * * * E M P L O Y M E N T S T A T U S O F W I F E * * * * *
 * * * * * V A R I A B L E A V E R A G E D . . . * * * * * T O P C O S T A V E R A G E O P P O R T U N I T Y C O S T O F F O O D * * * * *
 * * * * *

HED	WEMPL		ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE I 1 I 2 I	
LESS THAN HIGH S	10 I	8.99 I 38.95 I	12.00
		16.07 I 88.92 I	21.53
HIGH SCHOOL DIPL	12 I	13.05 I 5.41 I	9.46
		20.61 I 12.44 I	17.48
PARTIAL COLLEGE	14 I	29.43 I 9.33 I	15.33
		46.21 I 21.39 I	31.82
BACHELOR'S DEGREE	16 I	41.40 I 11.02 I	19.29
		45.15 I 44.68 I	46.52
GRADUATE DEGREE	18 I	67.30 I 19.34 I	38.20
		68.70 I 56.84 I	65.24
COLUMN TOTAL		31.44 11.29	19.04
		81 130	211
		46.20 38.30	42.55

Table 75

Table 127

***** C R O S S --- B R E A K D O W N O F ***** AGE GROUP OF YOUNGER CHILD
 ***** FAMILY INCOME ***** BY ITEM1 *****
 ***** VARIABLE AVERAGED... PRDAY2 ***** MARKET VALUE OF FOOD ON DAY 2 *****

ITEM1		MEAN I										ROW	
FAM Y	STD DEV I	LESS THAN 1 YEAR		1 YEAR		2-5 YEAR		6-11 YEAR		12-17 YEAR		TOTAL	
		I	I	I	I	I	I	I	I	I	I		
8	8	7.81	1	5.11	1	5.03	1	14.39	1	8.14	1	7.79	
LESS THAN \$10,000		2.34	1	2.87	1	1.17	1	7.14	1	0.0	1	4.17	
9	9	6.33	1	6.69	1	8.56	1	3.96	1	7.74	1	6.77	
\$10,000-\$11,999		2.43	1	3.15	1	0.13	1	0.0	1	1.17	1	2.20	
10	10	6.38	1	7.28	1	8.14	1	6.25	1	4.30	1	6.99	
\$12,000-\$14,999		2.15	1	2.08	1	6.64	1	1.30	1	1.28	1	3.64	
11	11	4.18	1	7.23	1	6.01	1	5.52	1	4.81	1	5.85	
\$15,000-\$19,999		2.74	1	1.97	1	2.54	1	1.71	1	1.88	1	2.19	
12	12	5.56	1	7.51	1	7.05	1	4.56	1	10.27	1	7.34	
\$20,000-\$24,999		2.14	1	2.99	1	3.13	1	2.17	1	10.62	1	5.91	
13	13	3.24	1	8.97	1	5.72	1	6.18	1	7.39	1	6.41	
\$25,000-\$49,999		2.29	1	2.23	1	2.45	1	2.28	1	3.60	1	3.09	
14	14	4.67	1	4.18	1	7.66	1	6.74	1	5.79	1	5.92	
\$50,000 OR MORE		0.0	1	0.0	1	0.0	1	2.69	1	4.23	1	2.73	
16	16	5.77	1	5.85	1	4.70	1	5.86	1	6.07	1	5.69	
NOT GIVEN		1.67	1	1.28	1	1.32	1	2.13	1	2.11	1	1.61	
COLUMN TOTAL		5.82		7.14		6.65		6.16		7.42		6.64	
		42		42		42		42		42		210	
		2.37		2.35		3.86		2.92		5.87		3.73	

Table 128

CROSS--BREAKDOWN OF EMPLOYMENT STATUS OF WIFE									
AREA		LOCATION OF RESIDENCE		PRDAY2		MARKET VALUE OF FOOD ON DAY 2		BY WEMPL	
VARIABLE AVERAGED...		WEMPL		NOT EMPL		ROW			
MEAN	STD DEV	1	2	1	2	1	2	1	2
1	1	7.90	6.93	1	1	7.31			
1	1	6.82	2.22	1	1	4.59			
2	1	4.97	6.46	1	1	5.96			
1	1	2.26	2.38	1	1	2.43			
COLUMN TOTAL		6.55	6.68			6.64			
		76	134			210			
		5.41	2.31			3.73			

Table 129

CROSS-BREAKDOWN OF EMPLOYMENT STATUS OF WIFE									
CHILDSEX SEX OF CHILDREN									
VARIABLE AVERAGED... PRDAY2 MARKET VALUE OF FOOD ON DAY 2									
WEMPL									
MEAN I									
STD DEV I									
EMPLOYED									
LAST WE									
NOT EMPL									
OYED LAS									
TOTAL									
CHILDSEX	1	2	3	4	5	6	7	8	9
BOTH BOYS	6.09	6.65	6.42	2.55					
BOTH GIRLS	7.30	6.35	6.65	3.81					
A GIRL AND A BOY	6.58	6.85	6.75	4.26					
COLUMN TOTAL	6.55	6.68	6.64	210	3.73				

Table 132

 FAMY FAMILY INCOME

 VARIABLE AVERAGED... PRDAY2

 C R O S S --- B R E A K D O W N O F
 BY WEMPL

 MARKET VALUE OF FOOD ON DAY 2

 EMPLOYMENT STATUS OF WIFE

		WEMPL							
		MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	LAST WE	LAST WE	ROW	TOTAL
		I	I	I	I	1	2		
FAMY		I	I	I	I	I	I		
LESS THAN \$10,000		8	8	8.39	7.42	1	1	7.79	4.17
\$10,000-\$11,999		9	9	5.43	7.01	1	1	6.77	2.20
\$12,000-\$14,999		10	10	7.69	6.82	1	1	6.99	3.64
\$15,000-\$19,999		11	11	4.11	6.79	1	1	5.85	2.19
\$20,000-\$24,999		12	12	7.60	6.98	1	1	7.34	5.91
\$25,000-\$49,999		13	13	6.34	6.45	1	1	6.41	3.09
\$50,000 OR MORE		14	14	5.90	5.95	1	1	5.92	2.73
NOT GIVEN		16	16	5.54	5.73	1	1	5.69	1.61
COLUMN TOTAL				6.55	6.68			6.64	210
				76	134			210	3.73
				5.41	2.31				

Table 133

C R O S S — B R E A K D O W N O F									
BY ITEM1									
AGE GROUP OF YOUNGER CHILD									
AVERAGE REPLACEMENT COST OF FOOD									
RPCOST									
LOCATION OF RESIDENCE									
AREA									
VARIABLE AVERAGED...									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
1 YEAR									
2-5 YEAR									
6-11 YEAR									
12-17 YEAR									
TOTAL									
ROW									
TOTAL									
RURAL									
URBAN									
COLUMN TOTAL									
1	9.11	7.51	6.40	8.86	8.80	8.14			
1	5.14	2.23	1.73	3.92	5.08	3.95			
2	7.72	8.05	8.78	7.70	8.69	8.19			
1	2.79	2.46	3.59	2.71	3.86	3.10			
8.41	7.78	7.54	8.28	8.75	8.16				
42	42	42	42	42	42	210			
4.14	2.33	3.03	3.38	4.45	3.54				

Table 134

** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** C R O S S---B R E A K D O W N O F A G E G R O U P O F Y O U N G E R C H I L D
 ** ** ** W E M P L E M P L O Y M E N T S T A T U S O F W I F E B Y I T E M 1
 ** ** ** V A R I A B L E A V E R A G E D . . . R P C O S T A V E R A G E R E P L A C E M E N T C O S T O F F O O D

ITEM1							ROW	
WEMPL	STD DEV I	I	LESS THA N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEA RS	12-17 YE ARS	TOTAL
EMPLOYED LAST WE	1	1	6.80	6.90	5.49	7.46	8.25	7.24
		1	2.01	2.69	1.64	2.55	4.62	3.42
NOT EMPLOYED LAS	2	1	8.85	8.02	8.64	8.79	9.73	8.68
		1	4.48	2.21	3.04	3.76	4.07	3.52
COLUMN TOTAL			8.41	7.78	7.59	8.28	8.75	8.16
			42	42	42	42	42	210
			4.14	2.33	3.03	3.38	4.45	3.54

Table 135

C R O S S --- B R E A K D O W N O F									
BY ITEM1 AGE GROUP OF YOUNGER CHILD									
AVERAGE REPLACEMENT COST OF FOOD									
RPCOST									
ITEM1									
CHILDSEX	MEAN I	STD DEV I	LESS 1MA	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ROW	
			IN 1 YEAR		S	RS	ARS	TOTAL	
			1	2	3	4	5		
BOTH BOYS	1	1	7.78 I	7.29 I	7.24 I	7.21 I	7.89 I	7.54	
	1	1	2.64 I	1.80 I	4.70 I	1.34 I	2.34 I	2.56	
BOTH GIRLS	2	1	7.71 I	7.13 I	7.94 I	10.43 I	9.55 I	8.32	
	1	1	2.40 I	2.88 I	2.59 I	2.71 I	6.78 I	3.77	
A GIRL AND A BOY	3	1	9.13 I	8.81 I	7.55 I	8.12 I	9.08 I	8.46	
	1	1	5.39 I	2.11 I	2.64 I	3.76 I	4.69 I	3.91	
COLUMN TOTAL	-1	-1	8.41	7.78	7.59	8.28	8.75	8.16	
			42	42	42	42	42	210	
			4.14	2.33	3.03	3.38	4.45	3.54	

Table 156

CROSS---BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
HED EDUCATION OF HUSBAND BY ITEM1									
VARIABLE AVERAGED... RPOST AVERAGE REPLACEMENT COST OF FOOD									
ITEM1									
MEAN I		LESS THA		2-5 YEAR		6-11 YEA		12-17 YE	
STD DEV I	I N 1 YEAR	1 YEAR	S	RS	ARS	ROW	TOTAL		
HED	---	---	---	---	---	---	---		
10 I	0.0 I	9.29 I	5.46 I	8.32 I	7.91 I	7.84	---		
LESS THAN HIGH S I	0.0 I	0.0 I	0.0 I	0.0 I	2.94 I	2.58	---		
---	---	---	---	---	---	---	---		
12 I	8.94 I	7.17 I	5.82 I	9.54 I	8.39 I	8.01	---		
HIGH SCHOOL DIPL I	2.28 I	1.91 I	1.63 I	4.78 I	1.47 I	3.16	---		
---	---	---	---	---	---	---	---		
14 I	9.33 I	8.38 I	7.50 I	7.81 I	9.11 I	8.42	---		
PARTIAL COLLEGE I	6.22 I	2.62 I	2.06 I	3.13 I	5.30 I	4.12	---		
---	---	---	---	---	---	---	---		
16 I	7.08 I	7.84 I	9.38 I	7.73 I	7.54 I	8.02	---		
BACHELOR'S DEGREE I	1.49 I	1.73 I	3.61 I	2.92 I	3.34 I	2.93	---		
---	---	---	---	---	---	---	---		
18 I	6.85 I	7.08 I	7.47 I	7.98 I	11.66 I	8.24	---		
GRADUATE DEGREE I	2.35 I	3.15 I	4.07 I	1.60 I	6.50 I	4.18	---		
---	---	---	---	---	---	---	---		
COLUMN TOTAL	8.41	7.78	7.59	8.28	8.75	8.16	---		
	42	42	42	42	42	210	---		
	4.14	2.33	3.03	3.38	4.45	3.54	---		

Table 157

C R O S S --- B R E A K D O W N O F										A G E G R O U P O F Y O U N G E R C H I L D									
E D U C A T I O N O F W I F E										A V E R A G E R E P L A C E M E N T C O S T O F F O O D									
R P C O S T										A V E R A G E R E P L A C E M E N T C O S T O F F O O D									
V A R I A B L E A V E R A G E D . . .										A V E R A G E R E P L A C E M E N T C O S T O F F O O D									
I T E M 1										I T E M 1									
M E A N I										M E A N I									
S T D D E V I										S T D D E V I									
L E S S T H A N 1 Y E A R										L E S S T H A N 1 Y E A R									
I										I									
1										1									
2										2									
3										3									
4										4									
5										5									
6-11 YEA										6-11 YEA									
R S										R S									
12-17 YE										12-17 YE									
A R S										A R S									
R O W										R O W									
T O T A L										T O T A L									
W E D										W E D									
10 I										10 I									
LESS THAN HIGH S										LESS THAN HIGH S									
12 I										12 I									
HIGH SCHOOL DIPL										HIGH SCHOOL DIPL									
14 I										14 I									
PARTIAL COLLEGE										PARTIAL COLLEGE									
16 I										16 I									
BACHELOR'S DEGREE										BACHELOR'S DEGREE									
18 I										18 I									
GRADUATE DEGREE										GRADUATE DEGREE									
COLUMN TOTAL										COLUMN TOTAL									

Table 138

***** C R O S S --- B R E A K D O W N O F ***** AGE GROUP OF YOUNGER CHILD *****
 ***** FAMILY INCOME ***** BY ITEM1 *****
 ***** VARIABLE AVERAGED... RP COST ***** AVERAGE REPLACEMENT COST OF FOOD *****

FAMY	STD DEV	MEAN I	ITEM1					ROW TOTAL
			LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	
			I	2	3	4	5	
LESS THAN \$10,000	8	10.32	1	6.09	8.31	13.16	16.92	10.15
		3.34	1	0.26	3.28	2.68	0.0	3.88
\$10,000-\$11,999	9	7.50	1	8.95	9.02	4.32	12.12	8.42
		2.29	1	0.49	0.26	0.0	1.57	2.58
\$12,000-\$14,999	10	10.06	1	7.73	7.49	11.15	8.23	8.71
		6.75	1	1.93	2.52	5.31	1.30	4.29
\$15,000-\$19,999	11	8.88	1	9.52	6.42	7.84	9.14	7.98
		4.39	1	1.58	2.18	1.87	4.19	2.65
\$20,000-\$24,999	12	7.53	1	6.52	7.18	7.60	7.07	7.11
		2.10	1	2.65	4.45	3.04	3.04	2.97
\$25,000-\$49,999	13	6.33	1	9.10	7.50	8.32	10.03	8.65
		2.14	1	2.91	2.10	2.78	5.48	3.94
\$50,000 OR MORE	14	4.33	1	2.92	6.48	8.71	4.95	5.75
		0.0	1	0.0	0.0	0.26	1.84	2.29
NOT GIVEN	16	7.92	1	8.85	12.01	3.74	6.99	7.85
		1.93	1	0.88	4.02	1.19	3.15	3.34
COLUMN TOTAL		8.41		7.78	7.59	8.28	8.75	8.16
		4.2		4.2	4.2	4.2	4.2	2.10
		4.14		2.33	3.03	3.38	4.45	3.54

** ** ** ** ** ** **
 AREA LOCATION OF RESIDENCE C R O S S---B R E A K D O W N O F
 ** ** ** ** **
 VARIABLE AVERAGED... RP COST AVERAGE REPLACEMENT COST OF FOOD
 ** ** ** **

Table 139

AREA	MEMPL				ROW TOTAL
	MEAN STD DEV	EMPLOYED LAST WE	NOT EMPLOYED LAST		
RURAL	1	7.13	8.78	1	8.14
	1	3.76	3.96	1	3.95
URBAN	2	7.37	8.59	1	8.19
	1	3.02	3.08	1	3.10
COLUMN TOTAL		7.24	8.08		8.16
		76	134		210
		3.42	3.52		3.54

* * * * * C R O S S---B R E A K D O W N U F * * * * *
 CHILDSEX SEX OF CHILDREN BY WEMPL EMPLOYMENT STATUS OF WIFE
 VARIABLE AVERAGED... RPCOST AVERAGE REPLACEMENT COST OF FOOD
 * * * * *

Table 140

	MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	ROW TOTAL
	1	1	LAST WE	LAST WE	
CHILDSEX	1	1	1	2	
BOTH BOYS	1	1	1	1	7.54
BOTH GIRLS	2	1	1	1	2.56
A GIRL AND A BOY	3	1	1	1	8.32
COLUMN TOTAL	7.24	8.68	3.42	3.52	8.16

Table 141

C R O S S---B R E A K D O W N									
HED EDUCATION OF HUSBAND					BY WEMPL				
VARIABLE AVERAGED...					RPCOST AVERAGE REPLACEMENT COST OF FOOD				
WEMPL									
MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	ROW	MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	ROW
1	1	LAST WE	OYED LAS	TOTAL	1	1	1	2	1
HED	1	1	1	1	HED	1	1	1	1
10	1	7.16	9.45	7.84	10	1	7.16	9.45	7.84
LESS THAN HIGH S	1	2.56	2.22	2.58	LESS THAN HIGH S	1	2.56	2.22	2.58
12	1	7.15	8.59	8.01	12	1	7.15	8.59	8.01
HIGH SCHOOL DIPL	1	2.50	3.45	3.16	HIGH SCHOOL DIPL	1	2.50	3.45	3.16
14	1	5.91	9.46	8.42	14	1	5.91	9.46	8.42
PARTIAL COLLEGE	1	2.68	4.18	4.12	PARTIAL COLLEGE	1	2.68	4.18	4.12
16	1	7.20	8.36	8.02	16	1	7.20	8.36	8.02
BACHELOR'S DEGREE	1	2.45	3.07	2.93	BACHELOR'S DEGREE	1	2.45	3.07	2.93
18	1	8.94	7.69	8.24	18	1	8.94	7.69	8.24
GRADUATE DEGREE	1	5.38	2.95	4.18	GRADUATE DEGREE	1	5.38	2.95	4.18
COLUMN TOTAL	7.24	8.68	8.16	8.16	COLUMN TOTAL	7.24	8.68	8.16	8.16
	76	134	210	210		76	134	210	210
	3.42	3.52	3.54	3.54		3.42	3.52	3.54	3.54

	C R O S S---B R E A K D O W N	O F	E M P L O Y M E N T S T A T U S O F W I F E
WED	EDUCATION OF WIFE	BY	WEMPL
VARIABLE AVERAGED...	RPCOST	AVERAGE REPLACEMENT COST OF FOOD	

Table 142

	MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	ROW
			LAST ME	LAST	TOTAL
WED	10	1	5.83	8.27	7.36
LESS THAN HIGH S	1	1	1.60	2.79	2.61
HIGH SCHOOL DIPL	12	1	6.74	8.73	8.05
PARTIAL COLLEGE	14	1	2.81	2.95	3.03
BACHELOR'S DEGREE	16	1	7.02	8.97	8.35
GRADUATE DEGREE	18	1	2.04	4.32	3.84
COLUMN TOTAL			7.24	8.68	8.16
			76	134	210
			3.42	3.52	3.54

FAMILY	FAMILY INCOME	CROSS---BREAKDOWN	OF	EMPLOYMENT STATUS OF WIFE
VARIABLE AVERAGED...	RPCOST	AVERAGE REPLACEMENT COST OF FOOD		

	MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	LAST WE	LAST	ROW TOTAL
FAMILY	8	1	7.02	12.11	1	2	10.15
LESS THAN \$10,000	8	1	2.58	3.25	1	1	3.88
\$10,000-\$11,999	9	1	7.67	8.56	1	1	8.42
\$12,000-\$14,999	10	1	7.51	9.00	1	1	8.71
\$15,000-\$19,999	11	1	6.92	8.56	1	1	7.98
\$20,000-\$24,999	12	1	6.51	7.93	1	1	7.11
\$25,000-\$49,999	13	1	8.81	8.55	1	1	8.65
\$50,000 OR MORE	14	1	6.92	3.80	1	1	5.75
NOT GIVEN	16	1	5.75	8.46	1	1	7.85
COLUMN TOTAL			7.24	8.68	1	1	8.16

Table 144

CROSS-BREACKDOWN OF AGE GROUP OF YOUNGER CHILD									
BY ITEM1									
REPLACEMENT COST OF FOOD FOR DAY 1									
RPOST1									
ITEM1									
AREA	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	YE	ROW TOTAL
			I N 1 YEAR	I	S	RS	ARS		
RURAL	1	1	8.61	7.15	6.50	8.48	8.01	1	7.75
	1	1	4.18	2.83	2.70	3.57	4.33	1	3.61
URBAN	2	1	7.48	8.12	7.81	7.39	8.81	1	7.92
	1	1	2.69	3.63	3.59	3.75	5.72	1	3.96
COLUMN TOTAL			8.05	7.63	7.15	7.94	8.41		7.84
			42	42	42	42	42		210
			3.52	3.25	3.21	3.66	5.03		3.78

Table 145

C R O S S --- B R E A K D O W N O F									
BY ITEM1 AGE GROUP OF YOUNGER CHILD									
REPLACEMENT COST OF FOOD FOR DAY 1									
RPCOST1									
ITEM1									
WEMPL									
EMPLOYMENT STATUS OF WIFE									
VARIABLE AVERAGED...									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
1 YEAR									
2-5 YEAR									
6-11 YEAR									
12-17 YEAR									
TOTAL									
WEMPL									
EMPLOYED LAST WE									
NOT EMPLOYED LAS									
COLUMN TOTAL									
1	7.23	7.63	5.57	7.53	7.65	7.19			
2	2.80	3.38	2.89	3.25	4.58	3.71			
1	8.27	7.64	7.95	8.19	9.93	8.20			
2	3.70	3.27	3.11	3.92	5.68	3.78			
TOTAL	8.05	7.63	7.15	7.94	8.41	7.84			
	42	42	42	42	42	210			
	3.52	3.25	3.21	3.66	5.03	3.78			

Table 147

** C R O S S --- B R E A K D O W N O F A G E G R O U P O F Y O U N G E R C H I L D
 ** ** ** E D U C A T I O N O F H U S B A N D B Y I T E M 1
 ** ** ** V A R I A B L E A V E R A G E D . . . R P C O S T 1 R E P L A C E M E N T C O S T O F F O O D F O R D A Y 1

ITEM1		MEAN I		STD DEV I		LESS THA I		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		ROW TOTAL
		I		I		N 1 YEAR		I		S		RS		ARS		
HED		I		I		I		I		I		I		I		
10 I		I		I		I		I		I		I		I		7.69
LESS THAN HIGH S		I		I		I		I		I		I		I		3.97
12 I		I		I		I		I		I		I		I		8.07
HIGH SCHOOL DIPL		I		I		I		I		I		I		I		3.28
14 I		I		I		I		I		I		I		I		7.75
PARTIAL COLLEGE		I		I		I		I		I		I		I		3.76
16 I		I		I		I		I		I		I		I		7.56
BACHELOR'S DEGREE		I		I		I		I		I		I		I		4.07
18 I		I		I		I		I		I		I		I		8.18
GRADUATE DEGREE		I		I		I		I		I		I		I		4.01
COLUMN TOTAL		I		I		I		I		I		I		I		7.84
		I		I		I		I		I		I		I		210
		I		I		I		I		I		I		I		3.78

Table 148

C R O S S --- B R E A K D O W N O F										A G E G R O U P O F Y O U N G E R C H I L D									
E D U C A T I O N O F W I F E										B Y I T E M 1									
R P C O S T 1 R E P L A C E M E N T C O S T O F F O O D F O R D A Y 1																			
V A R I A B L E A V E R A G E D . . .																			
I T E M 1																			
M E A N I																			
S T D D E V I																			
L E S S T H A N 1 Y E A R																			
1 Y E A R																			
2 Y E A R																			
3 Y E A R																			
6 - 11 Y E A R										R S									
12 - 17 Y E A R										A R S									
R O W										T O T A L									
W E D										I									
10 I										12.62 I									
L E S S T H A N H I G H S										6.26 I									
12 I										7.45 I									
H I G H S C H O O L D I P L										1.94 I									
14 I										7.53 I									
P A R T I A L C O L L E G E										2.56 I									
16 I										7.85 I									
B A C H E L O R ' S D E G R E										4.41 I									
18 I										7.81 I									
G R A D U A T E D E G R E E										2.57 I									
C O L U M N T O T A L										7.63									
										42									
										3.52									
										7.15									
										42									
										3.21									
										7.94									
										42									
										5.03									
										8.41									
										210									
										3.78									

Table 149

C R O S S --- B R E A K D O W N O F										A G E G R O U P O F Y O U N G E R C H I L D									
F A M I L Y I N C O M E										B Y I T E M 1									
V A R I A B L E A V E R A G E D . . . R P C O S T 1										R E P L A C E M E N T C O S T O F F O O D F O R D A Y 1									
I T E M 1										R S									
M E A N I										12-17 Y E									
S T D D E V I										A R S									
I										1									
I										2									
I										3									
I										4									
I										5									
I										T O T A L									
F A M Y										10.24									
L E S S T H A N \$ 10,000										3.64									
\$ 10,000-\$11,999										8.14									
\$ 12,000-\$14,999										3.35									
\$ 15,000-\$19,999										7.52									
\$ 20,000-\$24,999										3.01									
\$ 25,000-\$49,999										7.82									
\$ 50,000 OR MORE										3.61									
N O T G I V E N										6.56									
C O L U M N T O T A L										3.41									
8										9.12									
9										4.68									
10										5.85									
11										3.05									
12										7.39									
13										3.61									
14										7.84									
15										210									
16										3.78									

Table 150

C R O S S --- B R E A K D O W N U F									
E M P L O Y M E N T S T A T U S O F W I F E									
B Y W E M P L									
O F F									
R E P L A C E M E N T C O S T O F F O O D F O R D A Y 1									
R P C O S T 1									
L O C A T I O N O F R E S I D E N C E									
A R E A									
V A R I A B L E A V E R A G E D . . .									
W E M P L									
M E A N I									
S T D D E V I									
E M P L O Y E D									
L A S T W E									
N O T E M P L									
O Y E D L A S									
R O W									
T O T A L									
A R E A									
R U R A L	1	1	7.20	1	8.11	1	7.75		
	1	1	3.60	1	3.59	1	3.61		
U R B A N	2	1	7.18	1	8.29	1	7.92		
	1	1	3.89	1	3.97	1	3.96		
C O L U M N T O T A L									
			7.19		8.20		7.84		
			76		134		210		
			3.71		3.78		3.78		

Table 151

C R O S S --- B R E A K D O W N U F									
CHILUSEX SEX OF CHILDREN									
BY WEMPL									
REPLACEMENT COST OF FOOD FOR DAY 1									
R P C O S T 1									
EMPLOYMENT STATUS OF WIFE									
VARIABLE AVERAGED...									
WEMPL									
MEAN I									
STD DEV I									
EMPLOYED LAST WE									
NOT EMPLOYED LAS									
ROW TOTAL									
CHILDSEX	1	2	3	1	2	1	1	1	1
BOTH BOYS	7.29	3.21	7.46	3.30	7.39	3.24			
BOTH GIRLS	5.74	3.71	8.20	3.48	7.42	3.70			
A GIRL AND A BOY	7.67	3.98	8.60	4.12	8.27	4.08			
COLUMN TOTAL	7.19	76	3.71	8.20	210	3.78			

Table 153

CROSS--BREA K D U N O F									
BY WEMPL									
EMPLOYMENT STATUS OF WIFE									
REPLACEMENT COST OF FOOD FOR DAY 1									
RPCOST1									
EDUCATION OF WIFE									
WED									
VARIABLE AVERAGED...									
WEMPL									
MEAN I									
STD DEV I									
EMPLOYED									
LAST WE									
NOT EMPL									
OYED LAS									
TOTAL									
WED									
10	1	6.94	1	8.84	1	8.13			
LESS THAN HIGH S	1	1.36	1	4.54	1	3.64			
12	1	6.48	1	7.72	1	7.30			
HIGH SCHOOL DIPL	1	3.09	1	2.97	1	3.05			
14	1	7.98	1	8.63	1	8.43			
PARTIAL COLLEGE	1	3.67	1	3.68	1	3.66			
16	1	7.51	1	8.38	1	8.07			
BACHELOR'S DEGRE	1	4.84	1	4.82	1	4.80			
18	1	6.85	1	7.44	1	7.08			
GRADUATE DEGREE	1	3.60	1	3.66	1	3.53			
COLUMN TOTAL		7.19		8.20		7.84			
		76		134		210			
		3.71		3.78		3.78			

Table 156

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
BY ITEM1									
REPLACEMENT COST OF FOOD FOR DAY 2									
RPOOST2									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
1 YEAR									
2-5 YEAR									
6-11 YEAR									
12-17 YEAR									
TOTAL									
WEMPL									
EMPLOYED LAST WE									
NOT EMPLOYED LAS									
COLUMN TOTAL									
1	6.37	6.18	5.41	7.38	8.85	7.30			
2	2.68	2.92	2.20	3.41	7.89	5.39			
1	9.43	8.41	9.34	9.34	9.53	9.16			
2	6.73	2.82	3.96	5.12	4.12	4.77			
TOTAL	8.78	7.93	8.03	8.62	9.08	8.49			
	42	42	42	42	42	210			
	6.19	2.95	3.92	4.61	6.82	5.07			

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * *
 * * * * * VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 * * * * *
 * * * * *

Table 157

CHILDSEX	MEAN 1		STD DEV		ITEM1		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		RUM
	1	LESS	1	IN 1 YEAR	1	2	3	4	5	TOTAL	1	2	3	4	5
BOTH BOYS	1	7.71	1	7.43	1	7.88	1	7.39	1	8.00	1	7.69	1	2.77	1
BOTH GIRLS	2	7.71	1	7.88	1	9.04	1	10.71	1	11.65	1	9.21	1	6.32	1
A GIRL AND A BOY	3	9.95	1	8.48	1	7.60	1	8.53	1	8.85	1	8.65	1	5.49	1
COLUMN TOTAL	8.78	7.93	8.03	8.62	9.08	8.49	210	5.07	1	1	1	1	1	1	1

10

—

Table 159

 WED EDUCATION OF WIFE C R O S S --- B R E A K D O W N O F AGE GROUP OF YOUNGER CHILD

 VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2

	MEAN I		STD DEV I		ITEM1		LESS THA		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		ROW TOTAL
	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	
WED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LESS THAN HIGH S	10	1	8.41	1	6.28	1	5.64	1	2.98	1	9.65	1	6.58				6.58
HIGH SCHOOL DIPL	12	1	9.34	1	9.58	1	8.31	1	11.06	1	6.14	1	8.80				8.80
PARTIAL COLLEGE	14	1	10.23	1	8.06	1	7.60	1	7.27	1	8.61	1	8.27				8.27
BACHELOR'S DEGREE	16	1	7.95	1	7.36	1	10.64	1	8.23	1	10.33	1	8.67				8.67
GRADUATE DEGREE	18	1	3.16	1	6.84	1	4.43	1	6.88	1	15.95	1	8.37				8.37
COLUMN TOTAL	1	1	2.20	1	3.09	1	2.10	1	4.05	1	15.54	1	9.34				9.34
	8.78		7.93		8.03		8.62		9.08		8.49		8.49				8.49
	42		42		42		42		42		42		42				42
	6.19		2.95		3.92		4.61		6.82		5.07		5.07				5.07

Table 140

 F A M I L Y I N C O M E

 R P C O S T 2

 V A R I A B L E A V E R A G E D . . .

 C R O S S - B R E A K D O W N
 BY I T E M 1

 O F
 A G E G R O U P O F Y O U N G E R C H I L D

	I T E M 1		1 Y E A R		2-5 Y E A R		6-11 Y E A		12-17 Y E		R O W T O T A L
	M E A N S T U D E V	I N	L E S S T H A N 1 Y E A R	I	S	I	R S	I	A R S	I	
F A M Y	1	1	1	2	3	4	5	1	1	1	
8	9.61	1	4.42	1	7.61	1	14.75	1	21.58	1	10.06
LESS THAN \$10,00	3.18	1	2.63	1	3.66	1	3.80	1	0.0	1	5.38
9	8.51	1	10.10	1	9.42	1	3.35	1	9.85	1	8.70
\$10,000-\$11,999	3.91	1	3.12	1	0.41	1	0.0	1	1.69	1	3.24
10	11.80	1	8.38	1	7.90	1	14.41	1	9.02	1	9.91
\$12,000-\$14,999	10.39	1	2.38	1	3.60	1	7.48	1	0.89	1	6.46
11	7.77	1	10.33	1	6.51	1	8.11	1	8.90	1	8.14
\$15,000-\$19,999	5.35	1	2.90	1	2.78	1	2.51	1	4.18	1	3.22
12	7.72	1	6.72	1	8.70	1	6.90	1	8.32	1	7.67
\$20,000-\$24,999	2.90	1	2.97	1	4.55	1	4.84	1	6.04	1	4.31
13	5.67	1	7.18	1	7.50	1	7.77	1	9.83	1	8.18
\$25,000-\$49,999	4.48	1	1.40	1	2.65	1	2.74	1	9.41	1	6.71
14	4.98	1	1.70	1	2.09	1	9.85	1	5.57	1	5.65
\$50,000 OR MORE	0.0	1	0.0	1	0.0	1	3.72	1	2.68	1	3.03
16	7.35	1	8.06	1	14.81	1	4.78	1	7.51	1	8.32
NOT GIVEN	2.75	1	0.89	1	5.04	1	1.59	1	3.28	1	4.14
C O L U M N T O T A L	8.78		7.93		8.03		8.62		9.08		8.49
	42		42		42		42		42		210
	6.19		2.95		3.92		4.61		6.82		5.07

** ** ** ** ** ** ** **
 ** AREA ** ** ** **
 ** ** ** ** **
 ** ** ** * * * * * LOCATION OF RESIDENCE * * * * * C R O S S---B R E A K D O W N O F * * * * *
 ** ** ** * * * * * ** ** ** * * * * * BY WEMPL ** ** ** * * * * * EMPLOYMENT STATUS OF WIFE * * * * *
 ** ** ** * * * * * VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 * * * * *

Table 161

AREA	WEMPL		NOT EMPL		ROW TOTAL
	MEAN I	STD DEV I	EMPLOYED LAST ME	OYED LAS	
RURAL	1	1	7.07	9.46	8.52
	1	1	6.19	5.60	5.92
URBAN	2	1	7.57	8.89	8.45
	1	1	4.35	3.90	4.08
COLUMN TOTAL			7.30	9.16	8.49
			76	134	210
			5.39	4.77	5.07

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * CHILDSEX SEX OF CHILDREN * * * * *
 * * * * * VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 * * * * *

Table 162

	MEAN I	WEMPL							
	STD DEV	I	EMPLOYED	NOT EMPL	ROW				
			LAST WE	OYED LAS	TOTAL				
CHILDSEX	1	1	1	2	1				
	1	1	1	1	1				
BOTH BOYS	1	1	7.36	7.92	1	7.69			
	1	1	2.00	3.21	1	2.77			
	1	1	1	1	1				
BOTH GIRLS	2	1	9.00	9.31	1	9.21			
	1	1	10.06	3.71	1	6.32			
	1	1	1	1	1				
A GIRL AND A BOY	3	1	6.61	9.75	1	8.65			
	1	1	4.44	5.72	1	5.49			
	1	1	1	1	1				
COLUMN TOTAL	7.30	9.16	8.49						
	76	134	210						
	5.39	4.77	5.07						

* * * * * EDUCATION OF HUSBAND * * * * * C R O S S --- B R E A K D O W N * * * * *
 * * * * * VARIABLE AVERAGED... * * * * * RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 * * * * *
 * * * * *

Table 163

	MEAN	STD DEV	EMPLOYED	NOT EMPLOYED	ROW TOTAL
	1	1	LAST ME	OYED LAS	
	1	1	1	2	1
HED	1	1	1	1	1
LESS THAN HIGH S	10	1	7.10	10.08	7.99
	1	1	2.03	2.05	2.40
HIGH SCHOOL DIPL	12	1	6.62	8.83	7.95
	1	1	3.28	4.62	4.24
PARTIAL COLLEGE	14	1	6.28	10.26	9.08
	1	1	4.94	6.09	6.02
BACHELOR'S DEGREE	16	1	7.04	9.08	8.48
	1	1	2.18	3.63	3.39
GRADUATE DEGREE	18	1	9.58	7.29	8.30
	1	1	9.56	3.65	6.91
COLUMN TOTAL	7.30	9.16	7.30	1.34	8.49
	76	4.77	5.39	5.07	210
					5.07

Table 164

*** EDUCATION OF WIFE *** C R O S S --- B R E A K D O W N O F ***
 *** VARIABLE AVERAGED... RPCOST2 REPLACEMENT COST OF FOOD FOR DAY 2 ***
 *** EMPLOYMENT STATUS OF WIFE ***

	MEAN I	STD DEV I	EMPLOYED I	NOT EMPLOYED I	ROW TOTAL
WED	1	1	1	2	1
LESS THAN HIGH S	10	1	4.72	7.70	6.58
HIGH SCHOOL DIPL	12	1	1.87	1.88	2.32
PARTIAL COLLEGE	14	1	7.01	9.73	8.80
BACHELOR'S DEGREE	16	1	3.16	4.36	4.18
GRADUATE DEGREE	18	1	6.07	9.30	8.27
COLUMN TOTAL	76	1	1.92	6.18	5.42
	5.39	1	7.83	9.12	8.67
	76	1	4.78	3.47	3.99
	5.39	1	9.99	5.82	8.37
	76	1	11.61	3.23	9.34
	5.39	1	7.30	9.16	8.49
	76	1	134	210	210
	5.39	1	4.77	5.07	5.07

Table 165

 * F A M Y F A M I L Y I N C O M E C R O S S ---B R E A K D O W N O F E M P L O Y M E N T S T A T U S O F W I F E
 * * * * *
 * V A R I A B L E A V E R A G E D . . . R P C O S I 2 R E P L A C E M E N T C O S T O F F O O D F O R D A Y 2 * * * * *

	M E M P L		R O W	
	MEAN I	EMPLOYED	NOT EMPL	TOTAL
	STD DEV	LAST ME	OYED LAS	
	I	I	2	I
F A M Y	-----	-----	-----	-----
8	I	6.16 I	12.50 I	10.06
LESS THAN \$10,00	I	3.61 I	4.96 I	5.38
9	I	6.00 I	9.20 I	8.70
\$10,000-\$11,999	I	3.76 I	3.07 I	3.24
10	I	8.07 I	10.34 I	9.91
\$12,000-\$14,999	I	3.27 I	6.96 I	6.46
11	I	6.58 I	9.00 I	8.14
\$15,000-\$19,999	I	3.70 I	2.64 I	3.22
12	I	7.36 I	8.10 I	7.67
\$20,000-\$24,999	I	4.46 I	4.18 I	4.31
13	I	8.42 I	8.02 I	8.18
\$25,000-\$49,999	I	9.07 I	2.97 I	6.11
14	I	6.54 I	4.16 I	5.65
\$50,000 OR MORE	I	3.82 I	3.40 I	3.63
16	I	5.82 I	9.04 I	8.32
NOT GIVEN	I	2.67 I	4.28 I	4.14
COLUMN TOTAL	7.30	9.16	8.49	
	76	134	210	
	5.39	4.77	5.07	

* * * * *
 AREA LOCATION OF RESIDENCE C R O S S---B R E A K D O W N O F * * * * *
 * * * * *
 * * * * *
 VARIABLE AVERAGED... TOPCOST AVERAGE OPPORTUNITY COST OF FOOD * * * * *
 * * * * *

Table 166

AREA	ITEM1										ROW TOTAL
	MEAN I	STD DEV I	LESS THA N 1 YEAR	1 YEAR	2-5 YEAR S	6-11 YEA RS	12-17 YE ARS				
RURAL	1	1	2.74	1	4.06	1	7.81	1	9.35	1	14.27
	1	1	5.36	1	6.91	1	22.21	1	20.26	1	31.06
URBAN	2	1	5.35	1	1.86	1	5.00	1	15.45	1	16.72
	1	1	8.33	1	2.93	1	11.30	1	30.44	1	42.97
COLUMN TOTAL			4.04	2.96	6.40	12.40	51.67	15.50			
			42	42	42	42	42	210			
			7.05	5.36	17.46	25.72	66.04	37.42			

MEMPL EMPLOYMENT STATUS OF WIFE C R O S S---B R E A K D O W N O F AGE GROUP OF YOUNGER CHILD
 VARIABLE AVERAGED... TOPCOST AVERAGE OPPORTUNITY COST OF FOOD

Table 167

ITEM1											ROW TOTAL
MEAN	STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR					
1	1	1	2	3	4	5	1	1	1	1	
EMPLOYED LAST ME	1	10.66	9.41	16.53	23.83	51.66	57.02	29.47	43.46		
NOT EMPLOYED LAS	2	2.24	1.20	1.34	5.37	51.69	7.57	30.99			
COLUMN TOTAL	1	5.21	1.81	2.70	13.76	83.69	7.57	30.99			
	1	4.04	2.96	6.40	12.40	51.67	15.50	210	37.42		
	1	42	42	42	42	42	210	37.42			
	1	7.05	5.36	17.46	25.72	66.04	37.42				

U. S. N. S.

U. S. N. S.

Table 168

 CHILDSEX SEX OF CHILDREN

 VARIABLE AVERAGED... TOPCOST AVERAGE OPPORTUNITY COST OF FOOD

	ITEM1		CROSS--BREAKDOWN		BY ITEM1		OF		AGE GROUP OF YOUNGER CHILD	
	MEAN	STD DEV	1 LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ARS	ROW	TOTAL
CHILDSEX	1	1	1	2	3	4	5	1		
BOTH BOYS	1	1	1	1	1	1	1	1		
BOTH GIRLS	2	1	1	1	1	1	1	1		
A GIRL AND A BOY	3	1	1	1	1	1	1	1		
COLUMN TOTAL	4.04	4.04	2.96	6.40	12.40	51.67	15.50			
	42	42	42	42	42	42	42			
	7.05	7.05	5.36	17.46	25.72	66.04	37.42			

* * * * * C R O S S --- B R E A K D O W N U F * * * * *
 * * * * * EDUCATION OF HUSBAND * * * * *
 * * * * * HED * * * * *
 * * * * * VARIABLE AVERAGED... * * * * *
 * * * * * TOPCOST AVERAGE OPPORTUNITY COST OF FOOD * * * * *

Table 169

ITEM1	MEAN I		STD DEV I		LESS THA		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		ROW TOTAL
	I	N	I	N	I	N	I	N	I	N	I	N	I	N	
HED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
LESS THAN HIGH S	10	1	0.0	1	0.0	1	0.0	1	6.33	1	6.95	1	26.12	1	19.61
	1	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	35.35	1	30.76
HIGH SCHOOL DIPL	12	1	1.80	1	5.20	1	2.53	1	15.87	1	30.18	1	7.84	1	7.84
	1	1	3.75	1	10.21	1	2.86	1	26.16	1	35.57	1	17.38	1	17.38
PARTIAL COLLEGE	14	1	5.53	1	2.49	1	10.91	1	9.77	1	40.74	1	11.46	1	11.46
	1	1	9.32	1	2.53	1	29.38	1	16.96	1	53.26	1	26.64	1	26.64
BACHELOR'S DEGREE	16	1	1.49	1	2.17	1	5.19	1	5.06	1	62.14	1	19.88	1	19.88
	1	1	2.34	1	3.35	1	14.22	1	10.99	1	75.35	1	47.49	1	47.49
GRADUATE DEGREE	18	1	6.23	1	3.40	1	7.29	1	26.12	1	72.07	1	23.69	1	23.69
	1	1	7.50	1	6.38	1	4.12	1	52.25	1	86.01	1	51.38	1	51.38
COLUMN TOTAL	4	4	4.04	4	2.96	6	4.40	12	4.40	5	51.67	15	5.50	37	37.42
	4	4	4.2	4	4.2	4	4.2	4	4.2	4	4.2	4	4.2	4	210
	7	7	7.05	5	5.36	17	17.46	25	25.72	60	60.04	37	37.42	37	37.42

* * * * * C R O S S --- B R E A K D O W N O F * * * * *
 * * * * * EDUCATION OF WIFE * * * * * BY ITEM1 AGE GROUP OF YOUNGER CHILD * * * * *
 * * * * * MED * * * * *
 * * * * * VARIABLE AVERAGED... * * * * * TOPCOST AVERAGE OPPORTUNITY COST OF FOOD * * * * *

Table 170

	ITEM1		MEAN I		STD DEV I		LESS THA		1 YEAR		2-5 YEAR		6-11 YEA		12-17 YE		ROW TOTAL
	I	N	I	1 YEAR	I	1 YEAR	I	1 YEAR	I	2 YEAR	I	3 YEAR	I	4 YEAR	I	5 YEAR	
MED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
LESS THAN HIGH S	10	1	1	0.21	1	1	0.0	1	1	4.74	1	6.50	1	8.44	1	3.70	
	1	1	1	0.29	1	1	0.0	1	1	4.18	1	0.0	1	0.0	1	3.91	
HIGH SCHOOL DIPL	12	1	1	2.08	1	1	4.72	1	1	4.61	1	8.81	1	25.89	1	9.54	
	1	1	1	4.38	1	1	9.58	1	1	12.62	1	20.92	1	32.44	1	20.77	
PARTIAL COLLEGE	14	1	1	3.44	1	1	2.60	1	1	10.43	1	10.86	1	89.14	1	20.09	
	1	1	1	6.53	1	1	3.06	1	1	29.37	1	18.52	1	70.17	1	43.44	
BACHELOR'S DEGREE	16	1	1	8.53	1	1	2.46	1	1	3.49	1	1.90	1	72.12	1	18.75	
	1	1	1	10.25	1	1	4.65	1	1	3.57	1	2.45	1	91.27	1	49.98	
GRADUATE DEGREE	18	1	1	3.91	1	1	3.65	1	1	8.93	1	49.26	1	17.72	1	18.62	
	1	1	1	5.46	1	1	4.26	1	1	3.08	1	56.18	1	7.92	1	29.90	
COLUMN TOTAL				4.04			2.96			6.40		12.40		51.67		15.50	
				42			42			42		42		42		210	
				7.05			5.36			17.46		25.72		66.04		37.42	

Table 171

 FAMY FAMILY INCOME C R O S S---B R E A K D O W N O F AGE GROUP OF YOUNGER CHILD

 VARIABLE AVERAGED... TOPCOST AVERAGE OPPORTUNITY COST OF FOOD

	MEAN 1	STD DEV	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEA	12-17 YE	ROW TOTAL
	ITEM1	I	I	I	I	I	I	
FAMY	1	1	1	2	3	4	5	
LESS THAN \$10,00	8	1	0.28	3.45	4.74	39.00	87.69	14.48
	1	1	0.63	4.87	4.18	55.15	0.0	30.55
\$10,000-\$11,999	9	1	0.19	0.0	0.14	3.77	2.07	0.72
	1	1	0.22	0.0	0.19	0.0	2.65	1.41
\$12,000-\$14,999	10	1	5.98	2.49	12.11	2.91	6.59	5.94
	1	1	7.95	5.08	32.28	2.90	2.62	16.36
\$15,000-\$19,999	11	1	3.21	2.11	1.86	10.78	24.41	7.66
	1	1	3.47	2.28	2.37	18.77	31.54	16.53
\$20,000-\$24,999	12	1	8.89	2.37	11.43	2.57	58.32	19.11
	1	1	10.15	3.06	18.17	2.88	54.05	35.80
\$25,000-\$49,999	13	1	5.95	0.52	4.06	11.28	59.50	26.24
	1	1	8.81	0.90	5.42	17.43	83.99	56.17
\$50,000 OR MORE	14	1	0.69	4.17	9.17	77.15	20.96	28.90
	1	1	0.0	0.0	0.0	76.41	28.76	44.94
NOT GIVEN	16	1	0.50	12.78	1.17	0.0	101.15	24.94
	1	1	0.69	13.48	1.02	0.0	81.98	54.64
COLUMN TOTAL			4.04	2.96	6.40	12.40	51.67	15.50
			42	42	42	42	42	210
			7.05	5.36	17.46	25.72	66.04	37.42

Table 172

*** AREA *** LOCATION OF RESIDENCE *** C R O S S --- B R E A K D O W N U F *** EMPLOYMENT STATUS OF WIFE ***
 *** VARIABLE AVERAGED... *** TOPCOST AVERAGE OPPORTUNITY COST OF FOOD *** BY WEMPL ***

	WEMPL					ROW TOTAL
	MEAN	EMPLOYED	NOT EMPLOYED			
	STD DEV	LAST WE	OYED LAS			
AREA		1	1	2	1	
		1	1	1	1	
		1	1	1	1	
RURAL	1	30.59	3.82	1	1	14.27
	1	41.43	14.76	1	1	31.06
	1	1	1	1	1	
URBAN	2	28.16	11.00	1	1	16.72
	1	46.30	40.33	1	1	42.97
	1	1	1	1	1	
COLUMN TOTAL		29.47	7.57			15.50
		76	134			210
		43.46	30.99			37.42

Table 173

C R O S S --- B R E A K D O W N O F									
CHILDSEX SEX OF CHILDREN					BY WEMPL EMPLOYMENT STATUS OF WIFE				
VARIABLE AVERAGED...					TOPCUST AVERAGE OPPORTUNITY COST OF FOOD				
WEMPL									
MEAN I		EMPLOYED		NOT EMPL		ROW			
STD DEV	I	I	LAST WE	OYED LAS	I	TOTAL			
CHILDSEX	---	I	I	I	I	I			
BOTH BOYS	1	1	26.49	1	1.62	11.81			
	1	1	42.96	1	2.12	29.88			
BOTH GIRLS	2	1	27.62	1	3.18	10.96			
	1	1	31.40	1	11.65	22.85			
A GIRL AND A BOY	3	1	32.19	1	12.65	19.54			
	1	1	48.31	1	42.32	45.27			
COLUMN TOTAL		---	29.47	---	7.57	15.50			
			76		134	210			
			43.46		30.99	37.42			

Table 175

C R O S S---B R E A K D O W N O F									
E M P L O Y M E N T S T A T U S O F W I F E					E M P L O Y M E N T S T A T U S O F W I F E				
E D U C A T I O N O F W I F E					E D U C A T I O N O F W I F E				
T O P C O S T A V E R A G E D . . .					T O P C O S T A V E R A G E D . . .				
W E M P L					W E M P L				
M E A N					M E A N				
S T D D E V					S T D D E V				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				
I					I				

Table 176

C R O S S - B R E A K D O W N O F E M P L O Y M E N T S T A T U S O F W I F E									
F A M Y F A M I L Y I N C O M E					B Y W E M P L A V E R A G E O P P O R T U N I T Y C O S T O F F O O D				
V A R I A B L E A V E R A G E D . . .					T O P C O S T				
					W E M P L				

Table 177

C R O S S --- B R E A K D O W N O F									
AGE GROUP OF YOUNGER CHILD									
BY ITEM1									
OPPORTUNITY COST OF FOOD ON DAY 1									
ITEM1									
MEAN I									
STD DEV I									
LESS THAN 1 YEAR									
1 YEAR									
2-5 YEAR									
6-11 YEAR									
12-17 YEAR									
TOTAL									
AREA	1	2	3	4	5	1	2	3	4
RURAL	14.21	40.69	18.10	57.56	16.15	210	49.76		
URBAN									
COLUMN TOTAL	3.56	2.99	5.91	15.11	53.20	42	42	39.92	93.87

Table 178

***** C R O S S --- B R E A K D O W N O F A G E G R O U P O F Y O U N G E R C H I L D
 ***** E M P L O Y M E N T S T A T U S O F W I F E B Y I T E M 1
 ***** V A R I A B L E A V E R A G E D . . . T O P C O S T 1 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 1

ITEM1								ROW	
WEMPL	MEAN I	STD DEV I	LESS THA I	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YE	TOTAL	
			I N 1 YEAR		S	RS	ARS		
			I	2	3	4	5		
EMPLOYED LAST WE	1	10.86	9.73	15.16	31.84	44.11	53.98		
NOT EMPLOYED LAS	2	1.56	1.16	1.28	4.81	71.39	9.33		
		4.68	2.24	2.99	15.95	128.27	46.03		
COLUMN TOTAL		3.56	2.99	5.91	15.11	53.20	16.15		
		4.2	4.2	4.2	4.2	4.2	210		
		6.79	6.30	16.69	39.92	93.87	49.76		

Table 179

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
CHILDSEX SEX OF CHILDREN									
VARIABLE AVERAGED... TOPCOST1 OPPORTUNITY COST OF FOOD ON DAY 1									
ITEM1									
CHILDSEX	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW	
			1 YEAR	2 YEAR	5 YEAR	RS	ARS	TOTAL	
BOTH BOYS	1	1	2.05	3.52	1.50	27.72	15.34	8.99	
	1	1	4.35	5.06	1.89	69.44	27.21	28.81	
BOTH GIRLS	2	1	0.96	0.60	10.73	3.26	34.57	9.73	
	1	1	2.38	0.91	30.92	6.75	30.69	23.21	
A GIRL AND A BOY	3	1	5.59	4.39	5.13	14.05	90.90	23.01	
	1	1	8.66	9.10	8.02	32.88	127.60	64.65	
COLUMN TOTAL	-1	-1	3.56	2.99	5.91	15.11	53.20	16.15	
			42	42	42	42	42	210	
			6.79	6.30	16.69	39.92	93.87	49.76	

Table 180

Table 181

C R O S S --- B R E A K D O W N O F										A G E G R O U P O F Y O U N G E R C H I L D									
E D U C A T I O N O F W I F E										B Y I T E M 1									
V A R I A B L E A V E R A G E D . . .										O P P O R T U N I T Y C O S T O F F O O D O N D A Y 1									
T O P C O S T 1										I T E M 1									
M E A N I										S T D D E V I									
I										L E S S T H A N 1 Y E A R									
I										1 Y E A R									
I										2 I									
I										3 I									
I										4 I									
I										5 I									
I										R S									
I										A R S									
I										R O W									
I										T O T A L									
W E D	10	I	0.0	I	0.0	I	5.34	I	11.12	I	9.19	I	4.54						
LESS THAN HIGH S	I	0.0	I	0.0	I	4.69	I	0.0	I	0.0	I	4.97							
HIGH SCHOOL DIPL	12	I	0.83	I	4.84	I	2.87	I	11.18	I	24.71	I	9.12						
PARTIAL COLLEGE	14	I	3.56	I	11.89	I	8.51	I	39.13	I	33.32	I	25.46						
BACHELOR'S DEGREE	16	I	7.86	I	2.11	I	11.42	I	10.96	I	109.66	I	23.48						
GRADUATE DEGREE	18	I	5.19	I	2.52	I	29.38	I	21.48	I	135.12	I	66.05						
COLUMN TOTAL			3.56		2.99		5.91		15.11		53.20		16.15						
			42		42		42		42		42		210						
			6.79		6.30		16.69		39.92		93.87		49.76						

Table 182

FAMILY INCOME										CROSS--BREA K D W N O F										AGE GROUP OF YOUNGER CHILD									
FAMILY										BY ITEM1										AGE GROUP OF YOUNGER CHILD									
VARIABLE AVERAGED...										TOPCOST1 OPPORTUNITY COST OF FOOD ON DAY 1										AGE GROUP OF YOUNGER CHILD									
ITEM1										ITEM1										ITEM1									
MEAN I										ITEM1										ITEM1									
STD DEV I										ITEM1										ITEM1									
LESS THA										LESS THA										LESS THA									
I N 1 YEAR										I N 1 YEAR										I N 1 YEAR									
FAMY										FAMY										FAMY									
8 I										8 I										8 I									
LESS THAN \$10,00 I										LESS THAN \$10,00 I										LESS THAN \$10,00 I									
9 I										9 I										9 I									
\$10,000-\$11,999 I										\$10,000-\$11,999 I										\$10,000-\$11,999 I									
10 I										10 I										10 I									
\$12,000-\$14,999 I										\$12,000-\$14,999 I										\$12,000-\$14,999 I									
11 I										11 I										11 I									
\$15,000-\$19,999 I										\$15,000-\$19,999 I										\$15,000-\$19,999 I									
12 I										12 I										12 I									
\$20,000-\$24,999 I										\$20,000-\$24,999 I										\$20,000-\$24,999 I									
13 I										13 I										13 I									
\$25,000-\$49,999 I										\$25,000-\$49,999 I										\$25,000-\$49,999 I									
14 I										14 I										14 I									
\$50,000 OR MORE I										\$50,000 OR MORE I										\$50,000 OR MORE I									
16 I										16 I										16 I									
NOT GIVEN I										NOT GIVEN I										NOT GIVEN I									
COLUMN TOTAL										COLUMN TOTAL										COLUMN TOTAL									
3.56										3.56										3.56									
42										42										42									
6.79										6.79										6.79									
2.99										2.99										2.99									
42										42										42									
6.30										6.30										6.30									
5.91										5.91										5.91									
15.11										15.11										15.11									
42										42										42									
39.92										39.92										39.92									
16.69										16.69										16.69									
5.91										5.91										5.91									
1.11										1.11										1.11									
1.92										1.92										1.92									
0.0										0.0										0.0									
108.19										108.19										108.19									
23.23										23.23										23.23									
37.65										37.65										37.65									
78.47										78.47										78.47									
30.59										30.59										30.59									
21.93										21.93										21.93									
11.58										11.58										11.58									
19.17										19.17										19.17									
7.78										7.78										7.78									
16.41										16.41										16.41									
5.09										5.09										5.09									
1.83										1.83										1.83									
0.78										0.78										0.78									
20.51										20.51										20.51									
45.96										45.96										45.96									
0.78										0.78										0.78									
1.83										1.83										1.83									
5.09										5.09										5.09									
16.41										16.41										16.41									
7.78										7.78										7.78									
19.17										19.17										19.17									
11.58										11.58										11.58									
21.93										21.93										21.93									
30.59										30.59										30.59									
78.47										78.47										78.47									
37.53										37.53										37.53									
69.03										69.03										69.03									
32.70										32.70										32.70									
89.26										89.26										89.26									
16.15										16.15										16.15									
210										210										210									
49.76										49.76										49.76									

Table 184

C R O S S --- B R E A K D O W N O F									
CHILDSEX SEX OF CHILDREN					BY WEMPL				
VARIABLE AVERAGED...					EMPLOYMENT STATUS OF WIFE				
TOPCOST1 OPPORTUNITY COST OF FOOD ON DAY 1									
WEMPL									
MEAN I		STD DEV I		EMPLOYED		NOT EMPL		ROW	
				LAST WE		OYED LAS		TOTAL	
				1		2			
CHILDSEX									
BOTH BOYS	1	1	20.02	1	1.32	1		8.99	
		1	43.05	1	2.29	1		28.81	
BOTH GIRLS	2	1	24.89	1	2.65	1		9.73	
		1	32.71	1	12.50	1		23.21	
A GIRL AND A BOY	3	1	34.95	1	16.51	1		23.01	
		1	65.96	1	63.47	1		64.65	
COLUMN, TOTAL			28.19		9.33			16.15	
			76		134			210	
			53.98		46.03			49.76	

Table 188

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
LOCATION OF RESIDENCE									
BY ITEM									
TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2									
VARIABLE AVERAGED...									
ITEM1									
AREA	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW TOTAL	
			1 YEAR	2 YEAR	3 YEAR	4 YEAR	5 YEAR		
RURAL	1	1	2.77	3.95	7.87	6.81	50.26	14.33	
	1	1	5.80	5.83	22.21	16.36	62.33	35.15	
URBAN	2	1	6.29	1.90	5.94	12.58	50.01	15.34	
	1	1	11.28	3.32	15.45	20.65	77.25	40.22	
COLUMN TOTAL			4.53	2.92	6.90	9.69	50.14	14.84	
			42	42	42	42	42	210	
			9.03	4.80	18.92	18.63	69.33	37.68	

Table 190

CROSS-BREACKDOWN OF AGE GROUP OF YOUNGER CHILD									
CHILDSEX SEX OF CHILDREN									
VARIABLE AVERAGED... TOPCUST2 OPPORTUNITY COST OF FOOD ON DAY 2									
ITEM1									
CHILDSEX	MEAN I	STD DEV I	LESS THAN 1 YEAR	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	TOTAL	ROW TOTAL
			I N 1 YEAR	I	S	RS	ARS		
BOTH BOYS	1	I	2.62 I	4.78 I	2.41 I	18.76 I	40.87 I	14.64	14.64
	I	I	3.29 I	5.20 I	3.93 I	29.62 I	73.60 I	40.39	40.39
BOTH GIRLS	2	I	2.32 I	0.96 I	13.21 I	7.51 I	39.76 I	12.19	12.19
	I	I	5.96 I	1.81 I	30.66 I	11.12 I	28.08 I	23.73	23.73
A GIRL AND A BOY	3	I	6.74 I	2.64 I	5.45 I	7.57 I	61.83 I	16.06	16.06
	I	I	12.13 I	5.55 I	14.33 I	15.71 I	78.51 I	40.93	40.93
COLUMN TOTAL			4.53	2.92	6.90	9.69	50.14	14.84	14.84
			42	42	42	42	42	210	210
			9.03	4.80	18.92	18.63	69.33	37.68	37.68

Table 191

CROSS-BREACKDOWN OF AGE GROUP OF YOUNGER CHILD									
HED EDUCATION OF HUSBAND BY ITEM1									
VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2									
ITEM1									
MEAN I	STD DEV I	LESS THA I	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YE	ROW		
		I N 1 YEAR		S	RS	ARS	TOTAL		
		I	2	3	4	5			
HED		I	I	I	I	I			
10	I	0.0	0.0	5.41	7.43	23.95	18.05		
LESS THAN HIGH S	I	0.0	0.0	0.0	0.0	31.49	27.47		
12	I	1.38	4.73	2.27	10.71	36.16	6.72		
HIGH SCHOOL DIPL	I	2.63	8.01	2.83	21.21	49.81	17.45		
14	I	8.17	2.79	11.00	10.89	55.16	14.32		
PARTIAL COLLEGE	I	13.73	2.80	29.28	20.90	94.88	40.07		
16	I	2.67	1.88	6.36	4.13	57.85	18.82		
BACHELOR'S DEGREE	I	4.41	3.59	18.88	7.53	75.30	46.63		
18	I	4.07	3.60	8.96	15.83	57.86	18.56		
GRADUATE DEGREE	I	4.99	6.11	10.30	25.77	66.62	38.47		
COLUMN TOTAL		4.53	2.92	6.90	9.69	50.14	14.84		
		42	42	42	42	42	210		
		9.03	4.80	18.92	18.63	69.33	37.68		

Table 192

CROSS-BREAKDOWN OF AGE GROUP OF YOUNGER CHILD									
BY ITEM1									
OPPORTUNITY COST OF FOOD ON DAY 2									
ITEM1									
WED	MEAN I	STD DEV I	LESS THAN I	1 YEAR	2-5 YEAR	6-11 YEAR	12-17 YEAR	ROW	
			IN 1 YEAR		S	RS	ARS	TOTAL	
			1	2	3	4	5		
WED	10	1	0.42	0.0	4.15	1.88	7.69	2.86	
LESS THAN HIGH S	1	0.59	0.0	0.0	3.68	0.0	0.0	3.31	
	12	1	3.33	4.59	6.34	6.43	27.07	9.96	
HIGH SCHOOL DIPL	1	8.44	7.51	17.16	16.08	34.33		21.63	
	14	1	3.32	3.09	9.45	10.77	68.63	16.70	
PARTIAL COLLEGE	1	7.20	3.89	29.54	20.23	66.13		37.79	
	16	1	9.19	2.23	3.24	2.26	82.84	21.12	
BACHELOR'S DEGREE	1	12.76	4.45	3.40	3.63	104.99		57.00	
	18	1	2.63	2.63	11.18	30.76	18.92	14.83	
GRADUATE DEGREE	1	2.40	2.42	2.72	23.74	16.81		16.96	
COLUMN TOTAL			4.53	2.92	6.90	9.69	50.14	14.84	
			42	42	42	42	42	210	
			9.03	4.80	18.92	18.63	69.33	37.68	

Table 194

***** C R O S S --- B R E A K D O W N O F *****
***** LOCATION OF RESIDENCE ***** EMPLOYMENT STATUS OF WIFE *****
***** AREA ***** BY WEMPL *****
***** VARIABLE AVERAGED... TOPCUST2 OPPORTUNITY COST OF FOOD ON DAY 2 *****

AREA	WEMPL		NOT EMPL OYED LAS	ROW TOTAL
	MEAN I STD DEV I	EMPLOYED LAST WE		
RURAL	1	1	1	1
	1	30.65	3.88	14.33
	1	49.65	13.80	35.15
URBAN	2	1	1	1
	1	30.89	7.57	15.34
	1	58.81	23.45	40.22
COLUMN TOTAL		30.76	5.81	14.84
		76	134	210
		53.69	19.47	37.68

Table 195

CROSS---BREA K D O W N O F E M P L O Y M E N T S T A T U S O F W I F E									
CHILDSEX SEX OF CHILDREN									
VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2									
WEMPL									
CHILDSEX	MEAN I	STD DEV I	EMPLOYED		NOT EMPLOYED		ROW TOTAL		
			I	I	I	I			
			LAST WE		OYED LAS				
			1		2				
BOTH BOYS	1		32.97	1	1.92	1	14.64		
			58.95	1	2.76	1	40.39		
BOTH GIRLS	2		30.35	1	3.72	1	12.19		
			32.46	1	11.36	1	23.73		
A GIRL AND A BOY	3		29.43	1	8.79	1	16.06		
			57.47	1	25.95	1	40.93		
COLUMN TOTAL			30.76		5.81		14.84		
			76		134		210		
			53.69		19.47		37.68		

Table 196

C R O S S --- B R E A K D O W N O F									
E D U C A T I O N O F H U S B A N D					E M P L O Y M E N T S T A T U S O F W I F E				
V A R I A B L E A V E R A G E D . . . T O P C O S T 2 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 2									
W E M P L									
M E A N I		E M P L O Y E D		N O T E M P L		R O W			
S T D D E V I		I L A S T W E		O Y E D L A S		T O T A L			
		I 1 I		2 I					
H E D									
10 I		15.76 I		23.40 I		18.05			
L E S S T H A N H I G H S		26.92 I		34.08 I		27.47			
12 I		12.58 I		2.81 I		6.72			
H I G H S C H O O L D I P L		21.86 I		12.78 I		17.45			
14 I		32.35 I		6.78 I		14.32			
P A R T I A L C O L L E G E		66.40 I		17.66 I		40.07			
16 I		50.17 I		5.82 I		18.82			
B A C H E L O R ' S D E G R E		67.53 I		26.12 I		46.63			
18 I		35.37 I		5.11 I		18.56			
G R A D U A T E D E G R E E		52.58 I		10.77 I		38.47			
C O L U M N T O T A L		30.76		5.81		14.84			
		76		134		210			
		53.69		19.47		37.68			

Walker, Kathryn E. and Mary E. Woods. Time Use as a Measure of Household

Production of Family Goods and Services. (Washington, D.C.; Center for
the Family of the American Home Economics Association), 1976

Weinrobe, Maurice. "Household Production and National Production: An Improvement of the Record," Review of Income and Wealth, March 1974, pp. 89-102.

Table 197

 MED EDUCATION OF WIFE

 VARIABLE AVERAGED... TOPCOST2 OPPORTUNITY COST OF FOOD ON DAY 2

	MEAN I	MEMPL	STD DEV I	EMPLOYED	NOT EMPL	RUM
				LAST WE	OYED LAS	TOTAL
MED	1	1	1	1	2	1
LESS THAN HIGH S	10	1	4.78	1	1.71	1
	1	1	2.63	1	3.37	1
	1	1	1	1	1	1
HIGH SCHOOL DIPL	12	1	19.84	1	4.80	1
	1	1	29.18	1	14.24	1
	1	1	1	1	1	1
PARTIAL COLLEGE	14	1	38.04	1	6.78	1
	1	1	56.83	1	18.17	1
	1	1	1	1	1	1
BACHELOR'S DEGREE	16	1	47.53	1	6.72	1
	1	1	83.96	1	28.87	1
	1	1	1	1	1	1
GRADUATE DEGREE	18	1	20.39	1	5.15	1
	1	1	18.26	1	8.96	1
	1	1	1	1	1	1
COLUMN TOTAL	30.70	5.81	70	134	14.84	210
	53.69	19.47			37.68	

** ** ** ** ** ** ** ** ** ** ** ** C R O S S---B R E A K D O W N O F ** ** **
 F A M Y " F A M I L Y I N C O M E BY W E M P L E M P L O Y M E N T S T A T U S O F W I F E
 ** ** ** V A R I A B L E A V E R A G E D... I O P C O S T 2 O P P O R T U N I T Y C O S T O F F O O D O N D A Y 2 ** ** **

		MEAN		STD DEV		EMPLOYED		NOT EMPLOYED		ROW
		1	2	1	2	LAST	WE	OYED	LAS	TOTAL
FAMILY		1	1	1	1	1	1	1	1	
LESS THAN \$10,000		8	1	3.99	1	11.23	1	8.45		
		1	1	2.27	1	31.76	1	24.57		
\$10,000-\$11,999		9	1	2.83	1	0.25	1	0.65		
		1	1	0.40	1	0.33	1	1.02		
\$12,000-\$14,999		10	1	19.20	1	3.87	1	6.79		
		1	1	34.20	1	8.12	1	17.03		
\$15,000-\$19,999		11	1	14.57	1	3.72	1	7.55		
		1	1	19.83	1	13.23	1	16.43		
\$20,000-\$24,999		12	1	45.46	1	1.19	1	26.64		
		1	1	67.79	1	1.38	1	55.54		
\$25,000-\$49,999		13	1	35.37	1	12.71	1	21.88		
		1	1	64.11	1	35.74	1	49.78		
\$50,000 OR MORE		14	1	28.44	1	6.65	1	20.27		
		1	1	25.38	1	1.48	1	22.27		
NOT GIVEN		16	1	48.69	1	8.17	1	17.18		
		1	1	77.89	1	18.32	1	40.35		
COLUMN TOTAL		30	76	5.81	14.84					
		76	134	210	37.68					
		53.69	19.47							

REFERENCES

- Adler, Hans J. and Hawrylyshyn, Oli. Estimates of the Value of Household Work, Review of Income and Wealth, December 1978, pp. 333-356.
- Barnett, William S. The Joint Allocation of Leisure and Goods Expenditure, Econometrica, Vol. 47, No. 3, May 1979, pp. 539-563.
- Broady, Wendyce H. Economic Value of a Housewife. U.S. Department of Health, Education and Welfare, Social Security Administration, Office of Research and Statistics, Note No. 9, August 28, 1975, 75-11701, p. 5.
- Brown, R.S.; Moon, M. and Zoloth, B.S. Incorporating Occupational Attainment in Studies of Male-Female Earnings Differentials. Journal of Human Resources, Winter 1980, 15(1) pp. 3-28.
- Cardwell, L.A. and Rosenzweig, M.R. Economic Mobility, Monopsomistic Discrimination and Sex Differences in Wages. Southern Economic Journal, April 1980, 46(4) pp. 1102-1117.
- David, M.H. Family Composition and Consumption. Amsterdam: North Holland Publishing Company, 1962.
- DeSerpa, A.C. The Theory of the Value of Time, The Economic Journal, December 1971.
- Ferber, Marianne A. A Note on Household Production: An Improvement of the Record, Review of Income and Wealth, 1975, 21:251-252.
- Gage, M.G. The Homemaker's Work Load and its Value. (HEM Research Report 9) Ithaca, New York: Cornell University, October 1964.
- Gramm, Wendy. Household Utility Maximization and the Working Wife, American Economic Review, 1975:65, pp. 90-100.
- Gronau, R. The intrafamily allocation of time: The value of the housewives' time. American Economic Review, 1973, 63:634-651.
- Guenther, Patricia M. and Carolyn A. Chandler. Nutrients in Foods at Home and Away. Family Economics Review. Summer, 1981, pp.4-9.
- Hall, Florence T. The Case of the Late Mrs. Smith, Homemaker: Preparing Testimony for the Court, Journal of Home Economics, 67, November 1975, pp. 30-33.
- Hawrylyshyn, Oli. Towards a definition of non-market activities. Review of Income and Wealth, March 1977, pp. 79-96.

- Hawrylyshyn, Oli. "The Value of Household Services: A Survey of Empirical Estimates," Review of Income and Wealth, Statistics Canada, Ottawa, June 1976, pp. 101-131.
- Harshlag, Z.Y. The Case of Unpaid Domestic Service, Economic Internazionale, February 1960.
- Horowitz, S.Z. and Sherman, A. A Direct Measure of the Relationship Between Human Capital and Productivity. Journal of Human Resources, Winter 1980, 15(1) pp. 67-76.
- Hunt, T.C. and Kiker, B.F. Valuation of Household Services: Methodology and Estimation. Journal Risk Insurance, December 1979, 46(4) pp. 697-706.
- Kuznets, S. National Income and its Composition. 1919-1939. Vol. 2. New York: National Bureau of Economic Research, 1941.
- Leeds, John B. The Household Budget. Philadelphia: J.B. Leeds, 1917.
- Leibowitz, Arleen. Education and Home Production, American Economic Review. 64(2), May 1974
- _____, The Measurement of Output of the Non-Market Sector: The Evaluation of Housewives' Time, pp. 163-190 in M. Moss, ed. The Measurement of Economic and Social Performance, Studies in Income and Wealth. No. 38, November 1973.
- Morgan, James N., Ismail A. Sirageldin, and Nancy Baerwaldt. Productive Americans. Ann Arbor: Institute for Social Research, University of Michigan, 1966.
- Murphy, Martin. Are Household Services Overvalued? The American Journal of Economics and Sociology. October 1980, Vol. 39, No. 4, pp. 413-415.
- Murphy, Martin. The Measurement and Valuation of Household Non-Market Time, Bureau of Economic Analysis, Department of Commerce, Washington, D.C., March 1980.
- Murphy, Martin. The Value of Nonmarket Household Production: Opportunity Cost Versus Market Cost Estimates, Review of Income and Wealth, September 1978, pp. 243-256.
- The Ottawa Journal. "The Value of a Housewife." January 25, 1977, p. 7.
- Peskin, Henry M. and Peskin, Janice. "The Valuation of Nonmarket Activities in Income Accounting," Review of Income and Wealth, March 1978; pp. 71-92.
- Peterson. "Problems in Estimating the Value of Household Services." American Journal of Economics and Sociology, Vol. 37, No. 2, April 1978, pp. 145-148.
- Pyun, Chong Soo. "The Monetary Value of A Housewife," The American Journal of Economics and Sociology, July 1969.

- Reid, M. Economics of Household Production. New York: John Wiley and Sons, 1934.
- Rosen, H.F. "Monetary Value of a Housewife: A Replacement Cost Approach," American Journal of Economics and Sociology, January 1974, pp. 65-72.
- Rozier, Justine J. Study of Factors Relating to Household Production at Different Income Levels. M.S. Thesis, Purdue University, 1967.
- Sanik, Margaret Mietus. A Twofold Comparison of Time Spent in Household Work in Two-Parent, Two-Child Households: Urban New York State in 1967-68 and 1977; Urban-Rural, New York-Oregon in 1977. Ph.D. dissertation, Cornell University, 1979.
- Sirageldin, I.A.H. Non-Market Components of National Income. Ann Arbor: University of Michigan, 1969.
- Sirageldin, I.A.H. Non-Market Components of National Income. Survey Research Centre, Institute for Social Research, Ann Arbor: University of Michigan, 1973.
- Smallwood, David and James Blalock. Impact of Household Size and Income on Food Spending Patterns. United States Department of Agriculture, Technical Bulletin No. 1650. May, 1981
- Ten Year Tables: Product sales growth and performance, housewares. Merchandising. March 1980, pp. 32-35.
- Ten Year Tables: Product growth and performance, major appliances. Merchandising. March 1980, pp. 22-23.
- U.S. Bureau of the Census. 1972-73 U.S. Consumer Expenditure Survey (Technical Paper No. 46). Washington, D.C.: U.S. Government Printing Office, 1979.
- United States Department of Agriculture. Cost of Food at Home. Family Economics Review. Fall, 1981, p.30.
- U.S. Department of Commerce. Office of Business Economics. A Supplement to the Survey of Current Business: National Income. Washington, D.C.: U.S. Government Printing Office, 1954.
- Walker, K.E. and Gauger, W.H. The Dollar Value of Household Work. Information Bulletin 60. Ithaca: Cornell University, 1973.
- Walker, K.E. and Gauger, W.H. The Dollar Value of Household Work. Information Bulletin 60. Ithaca: Cornell University, 1980.

Walker, Kathryn E. and Mary E. Woods. Time Use as a Measure of Household Production of Family Goods and Services. (Washington, D.C.; Center for the Family of the American Home Economics Association), 1976

Weinrobe, Maurice. "Household Production and National Production: An Improvement of the Record," Review of Income and Wealth, March 1974, pp. 89-102.

302975





